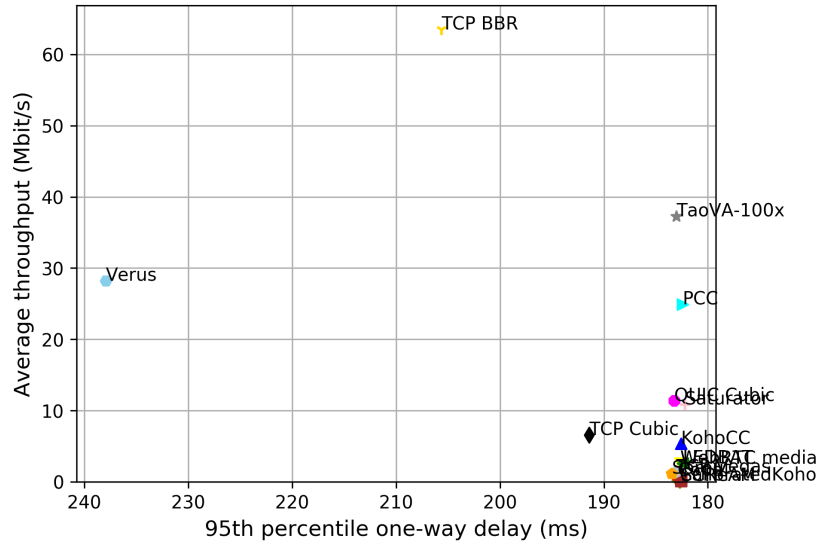


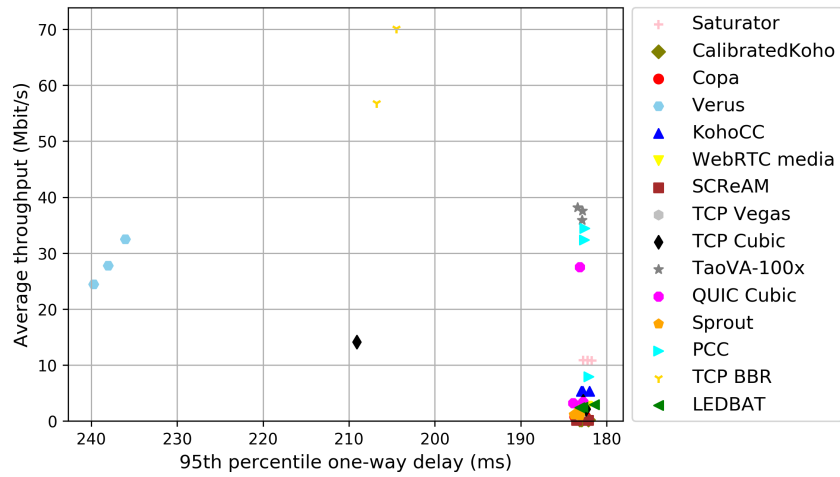
Pantheon Summary (Generated at Sun, 06 Aug 2017 09:06:10 +0000 with pantheon version a934ee3822380a12762347e6bc8bd1f3e836e73b)
Repeated the test of 15 congestion control schemes 3 times.
Each test lasted for 30 seconds running 1 flow.
Data path: China Ethernet (*remote*) → AWS Korea Ethernet (*local*).
NTP offset measured against ntp.nict.jp and has been applied to correct the timestamps in logs.

```
git branch: master @ a934ee3822380a12762347e6bc8bd1f3e836e73b
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from China Ethernet to AWS Korea Ethernet, 3 runs of 30s each per scheme
(mean of all runs by scheme)



test from China Ethernet to AWS Korea Ethernet, 3 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	3	63.48	205.64	1.58
CalibratedKoho	3	0.24	182.71	0.62
Copa	3	0.89	182.94	0.61
TCP Cubic	3	6.60	191.41	1.08
KohoCC	3	5.35	182.58	0.98
LEDBAT	3	2.60	182.42	0.53
PCC	3	24.91	182.41	1.20
QUIC Cubic	3	11.39	183.26	1.12
Saturator	3	10.85	182.23	0.90
SCReAM	3	0.14	182.60	0.61
Sprout	3	1.17	183.48	0.90
TaoVA-100x	3	37.23	183.02	0.76
TCP Vegas	3	1.37	183.07	0.87
Verus	3	28.24	237.95	49.28
WebRTC media	3	2.57	182.66	0.74

Run 1: Statistics of TCP BBR

Start at: Sun, 06 Aug 2017 07:07:57 +0000

End at: Sun, 06 Aug 2017 07:08:27 +0000

Local clock offset: 2.45 ms

Remote clock offset: -0.372 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:12 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.81 Mbit/s

95th percentile per-packet one-way delay: 206.788 ms

Loss rate: 1.34%

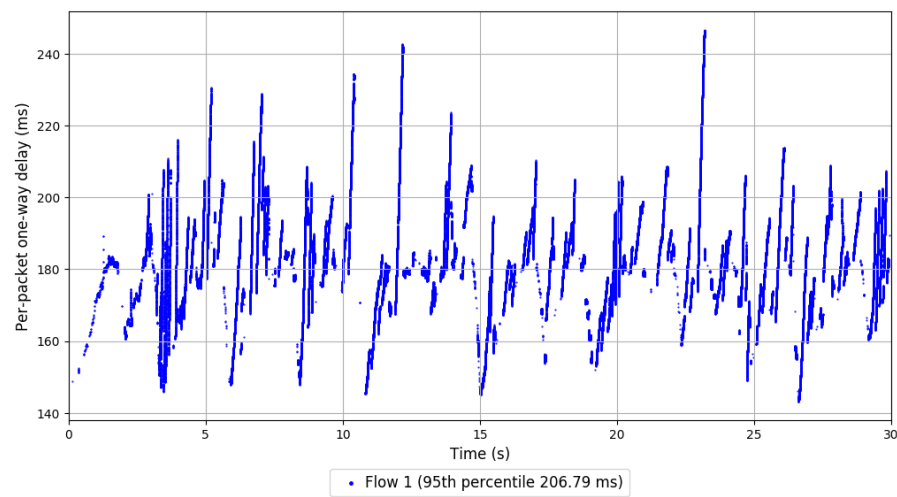
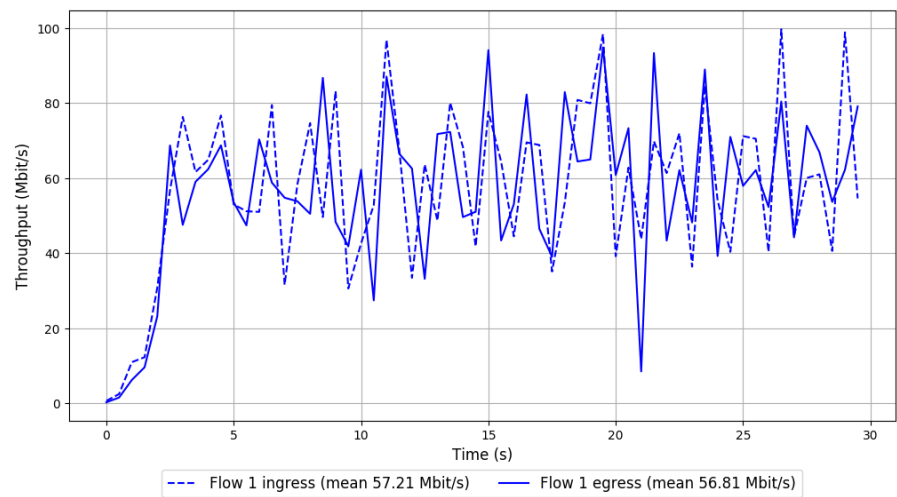
-- Flow 1:

Average throughput: 56.81 Mbit/s

95th percentile per-packet one-way delay: 206.788 ms

Loss rate: 1.34%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

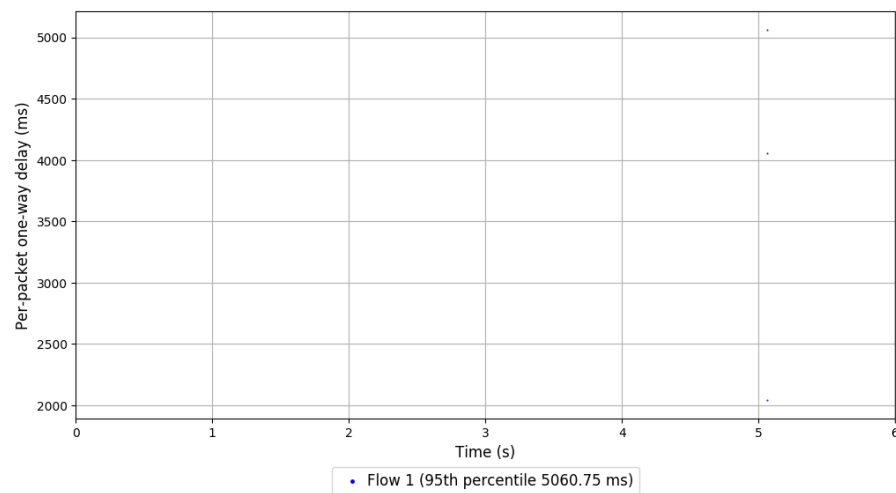
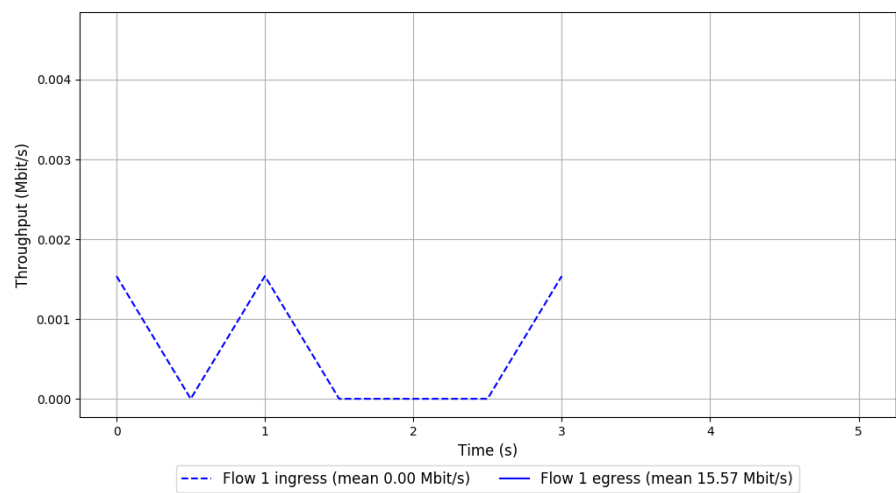
Start at: Sun, 06 Aug 2017 07:28:12 +0000

End at: Sun, 06 Aug 2017 07:28:42 +0000

Local clock offset: 2.33 ms

Remote clock offset: 0.32 ms

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: Sun, 06 Aug 2017 07:47:46 +0000

End at: Sun, 06 Aug 2017 07:48:16 +0000

Local clock offset: 2.99 ms

Remote clock offset: 0.578 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:18 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.15 Mbit/s

95th percentile per-packet one-way delay: 204.501 ms

Loss rate: 1.82%

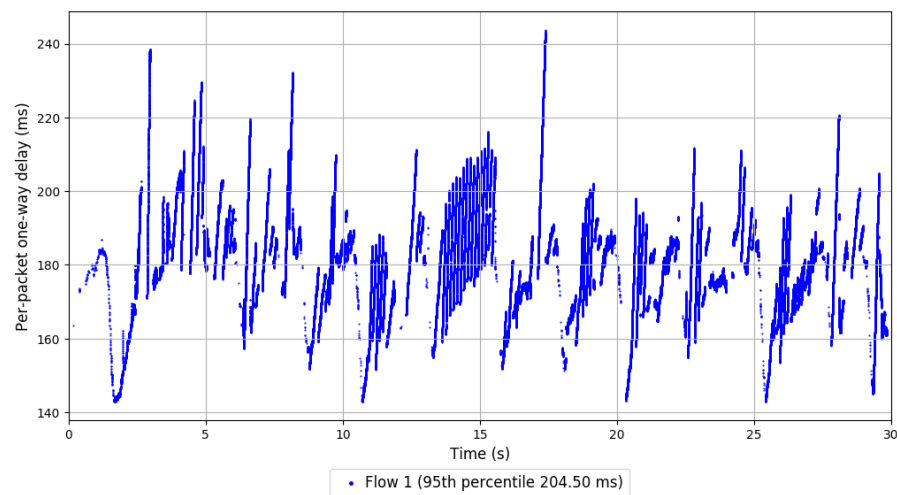
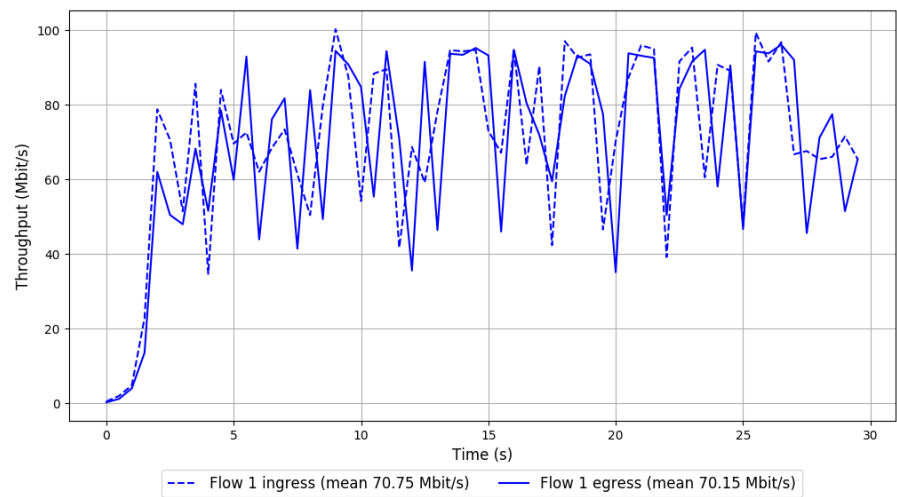
-- Flow 1:

Average throughput: 70.15 Mbit/s

95th percentile per-packet one-way delay: 204.501 ms

Loss rate: 1.82%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: Sun, 06 Aug 2017 07:15:59 +0000

End at: Sun, 06 Aug 2017 07:16:29 +0000

Local clock offset: 2.416 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:18 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 182.919 ms

Loss rate: 0.83%

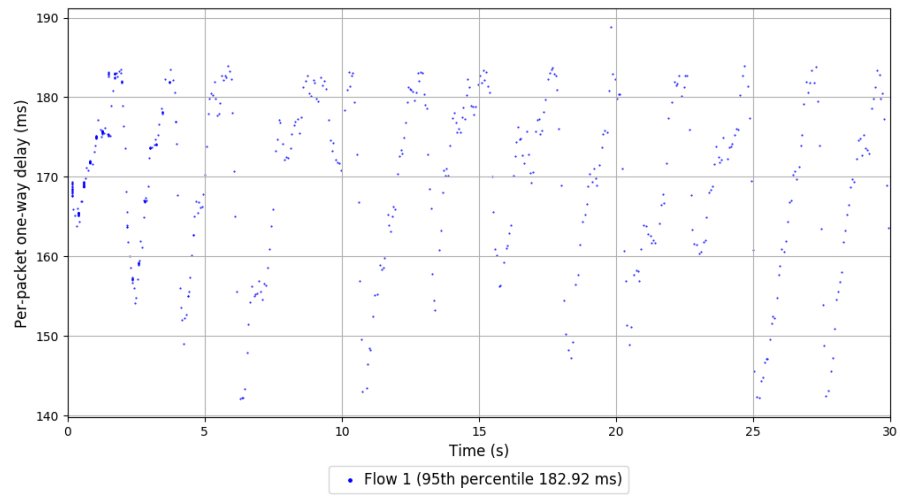
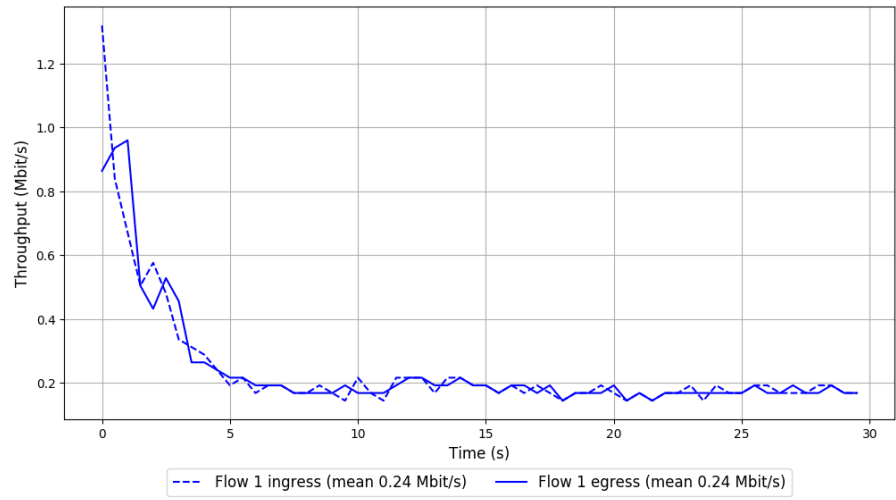
-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 182.919 ms

Loss rate: 0.83%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: Sun, 06 Aug 2017 07:35:49 +0000

End at: Sun, 06 Aug 2017 07:36:19 +0000

Local clock offset: 2.258 ms

Remote clock offset: 0.278 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:18 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 183.114 ms

Loss rate: 0.52%

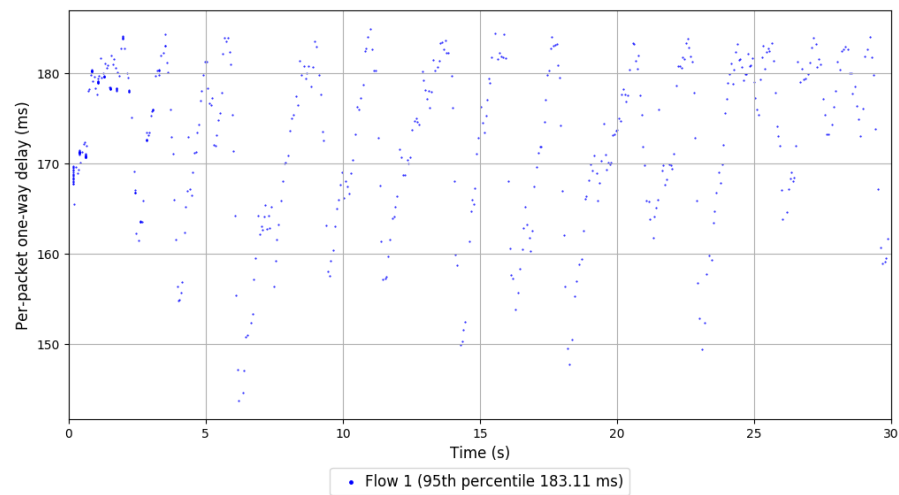
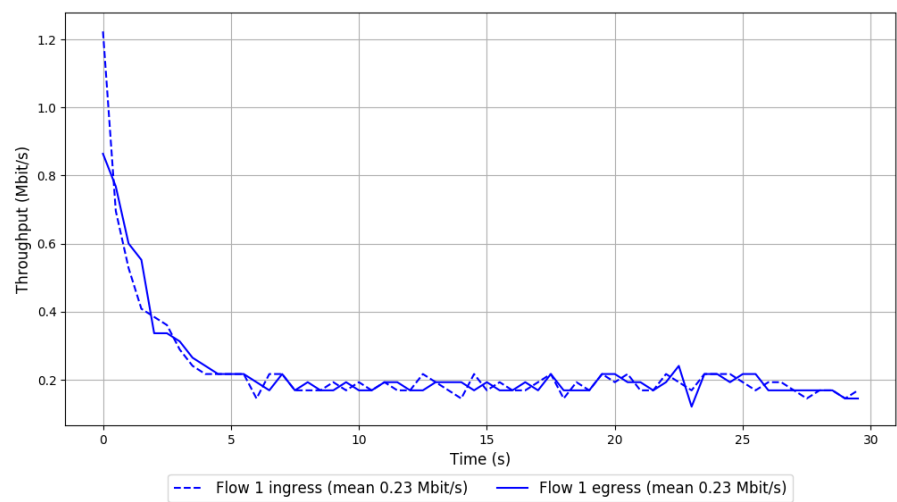
-- Flow 1:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 183.114 ms

Loss rate: 0.52%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: Sun, 06 Aug 2017 07:55:38 +0000

End at: Sun, 06 Aug 2017 07:56:08 +0000

Local clock offset: 2.105 ms

Remote clock offset: 0.64 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:18 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 182.105 ms

Loss rate: 0.50%

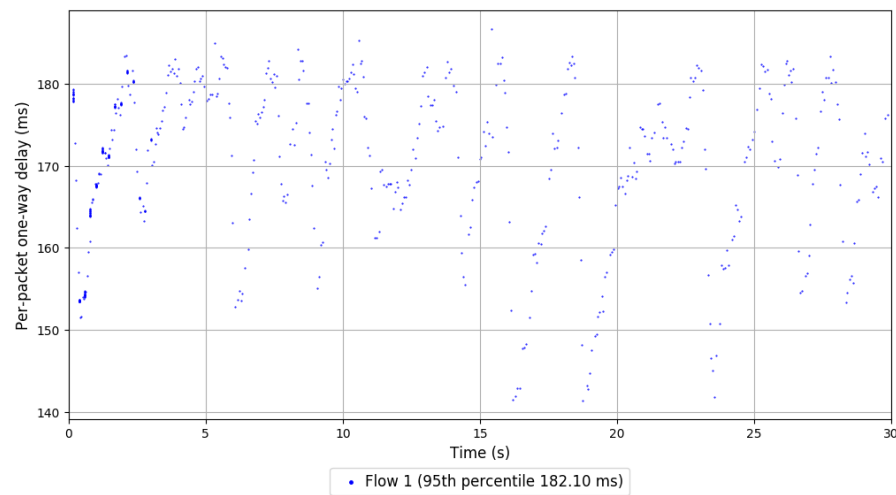
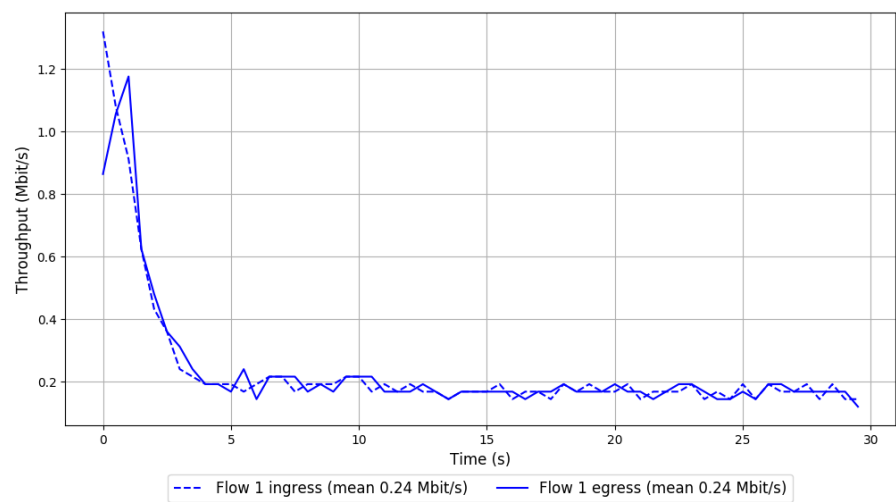
-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 182.105 ms

Loss rate: 0.50%

Run 3: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: Sun, 06 Aug 2017 07:11:55 +0000

End at: Sun, 06 Aug 2017 07:12:25 +0000

Local clock offset: 2.119 ms

Remote clock offset: -0.263 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:18 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 182.503 ms

Loss rate: 0.52%

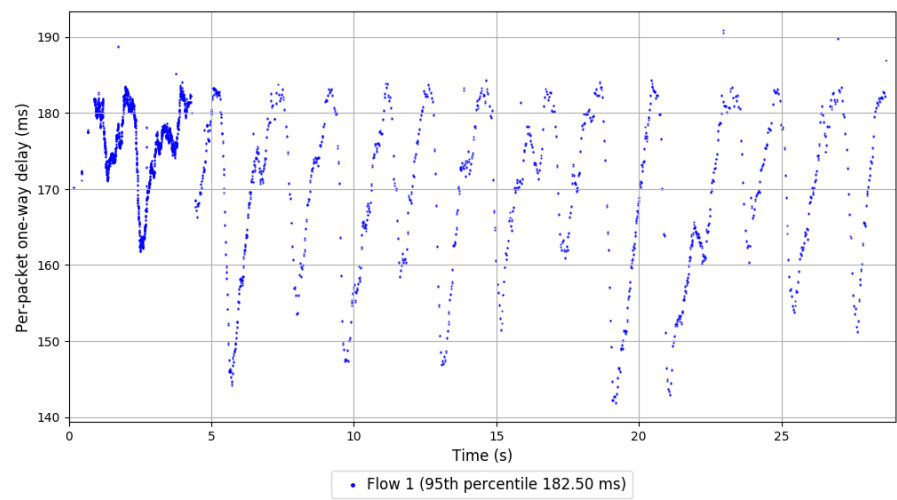
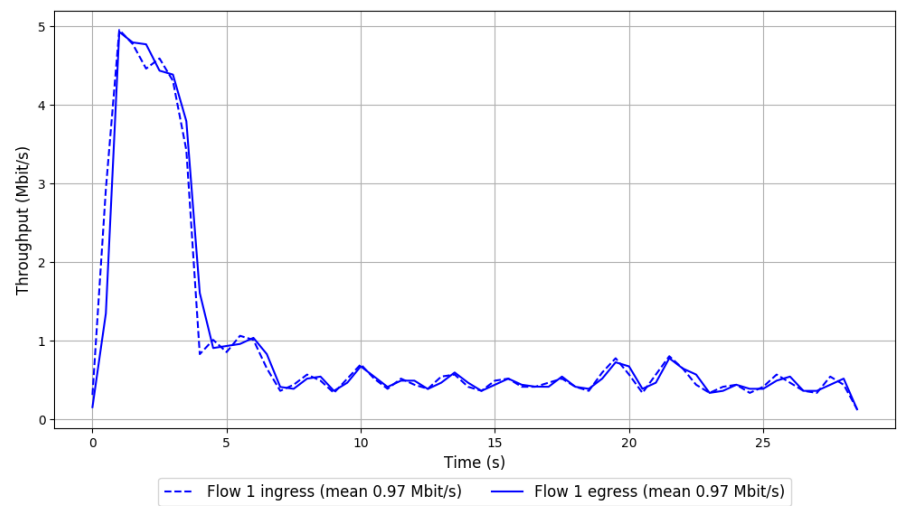
-- Flow 1:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 182.503 ms

Loss rate: 0.52%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: Sun, 06 Aug 2017 07:31:53 +0000

End at: Sun, 06 Aug 2017 07:32:23 +0000

Local clock offset: 2.367 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:18 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 182.584 ms

Loss rate: 0.67%

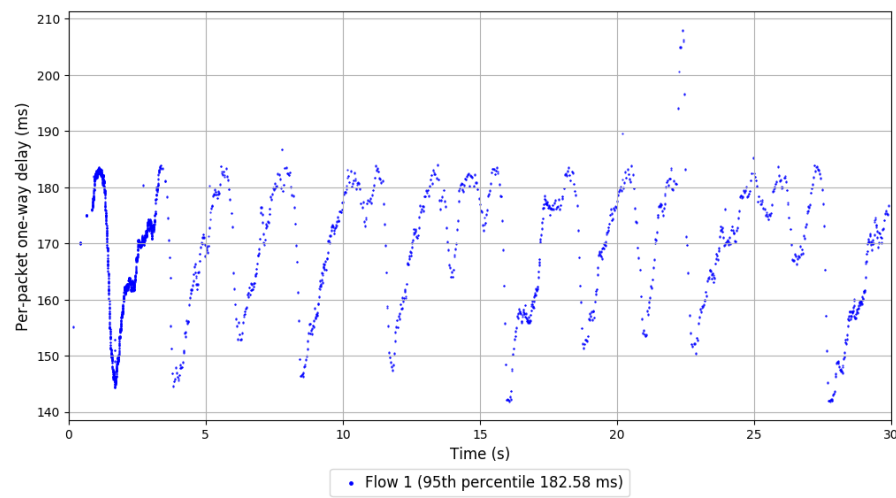
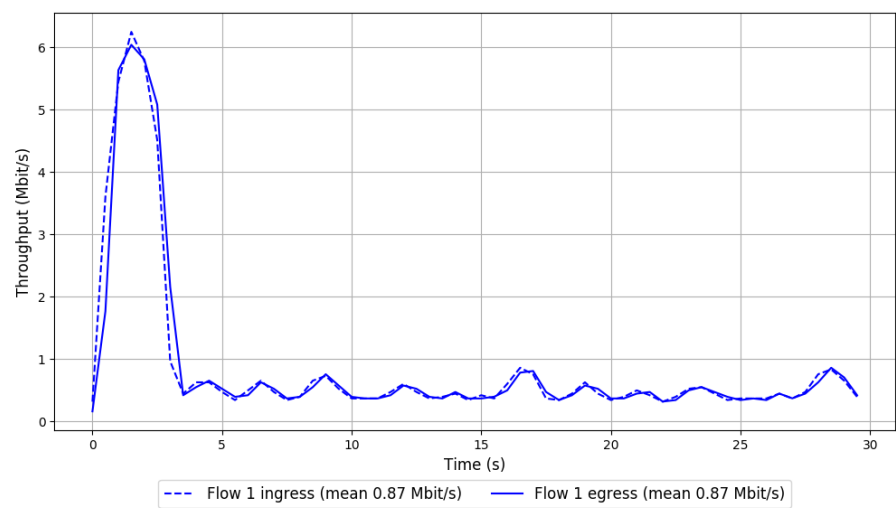
-- Flow 1:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 182.584 ms

Loss rate: 0.67%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: Sun, 06 Aug 2017 07:51:53 +0000

End at: Sun, 06 Aug 2017 07:52:23 +0000

Local clock offset: 2.955 ms

Remote clock offset: 0.594 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:19 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 183.732 ms

Loss rate: 0.65%

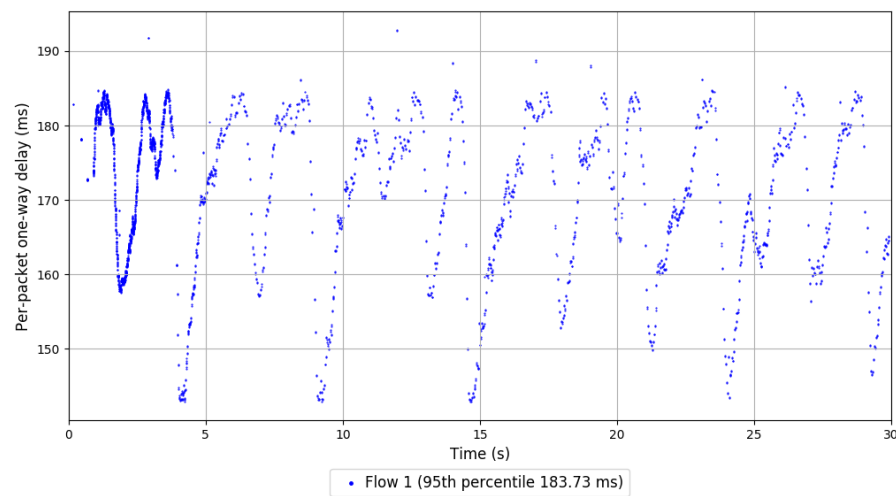
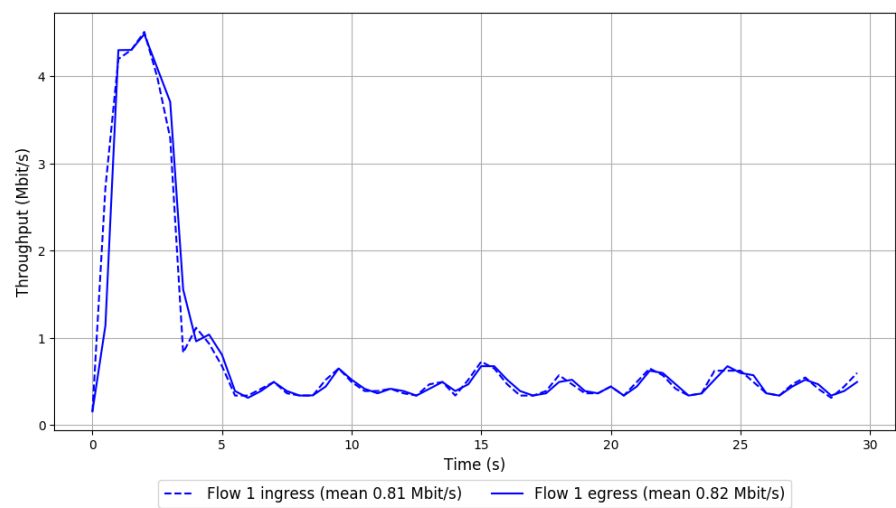
-- Flow 1:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 183.732 ms

Loss rate: 0.65%

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: Sun, 06 Aug 2017 07:17:12 +0000

End at: Sun, 06 Aug 2017 07:17:42 +0000

Local clock offset: 3.233 ms

Remote clock offset: -0.059 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:19 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 182.397 ms

Loss rate: 1.00%

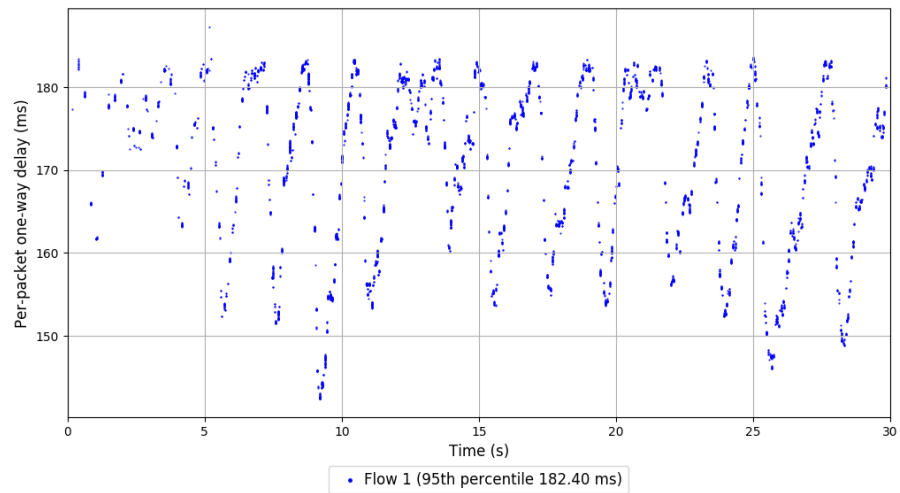
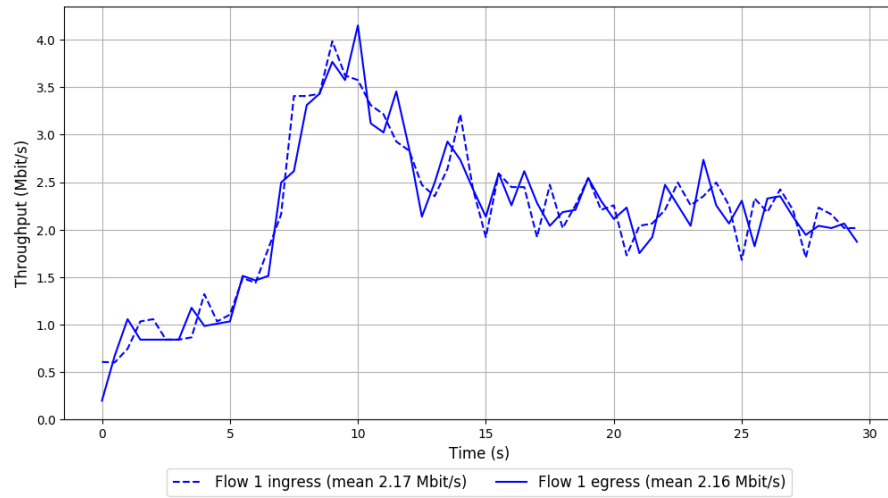
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 182.397 ms

Loss rate: 1.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: Sun, 06 Aug 2017 07:37:02 +0000

End at: Sun, 06 Aug 2017 07:37:32 +0000

Local clock offset: 2.269 ms

Remote clock offset: 0.371 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:21 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.11 Mbit/s

95th percentile per-packet one-way delay: 209.108 ms

Loss rate: 1.26%

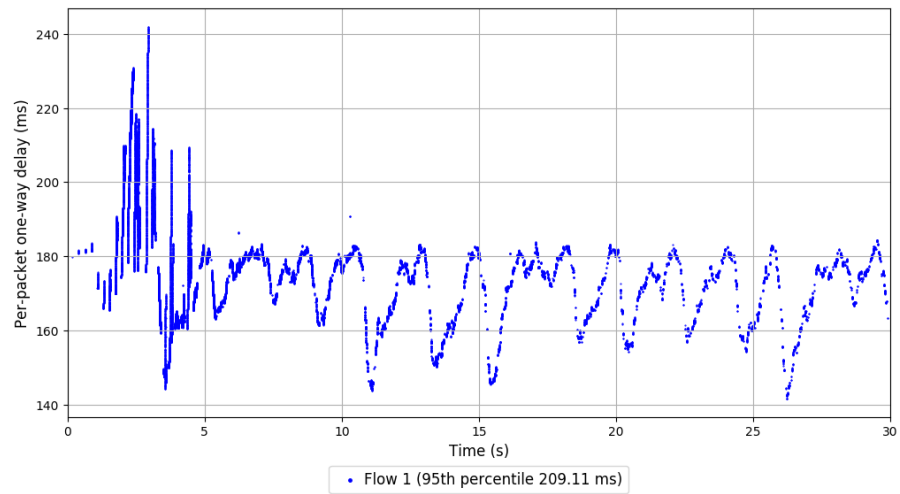
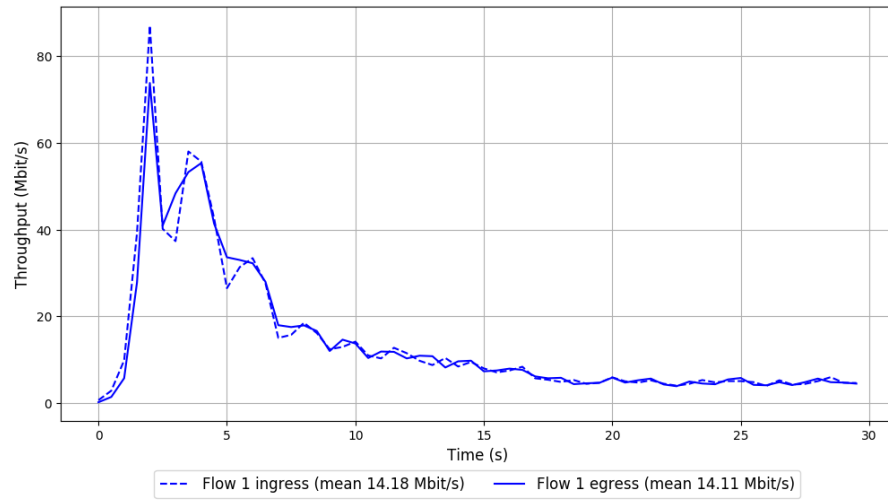
-- Flow 1:

Average throughput: 14.11 Mbit/s

95th percentile per-packet one-way delay: 209.108 ms

Loss rate: 1.26%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: Sun, 06 Aug 2017 07:56:51 +0000

End at: Sun, 06 Aug 2017 07:57:21 +0000

Local clock offset: 2.841 ms

Remote clock offset: 0.638 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:21 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 182.739 ms

Loss rate: 0.97%

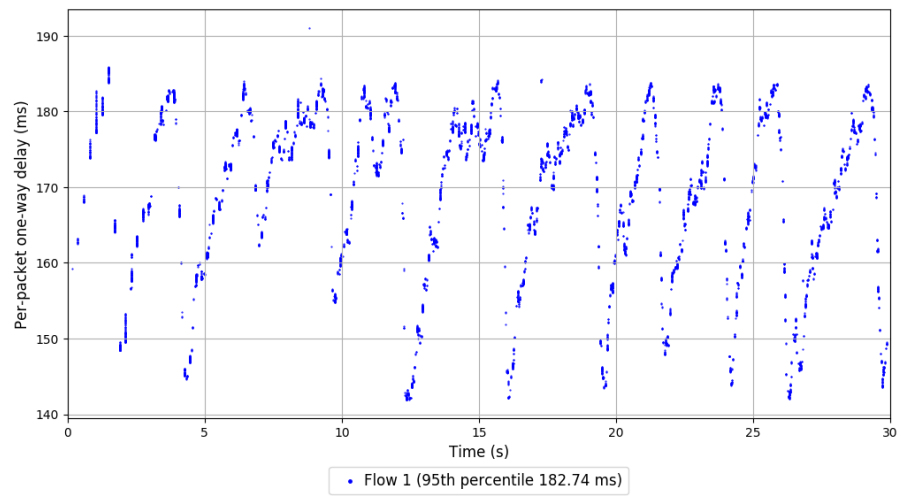
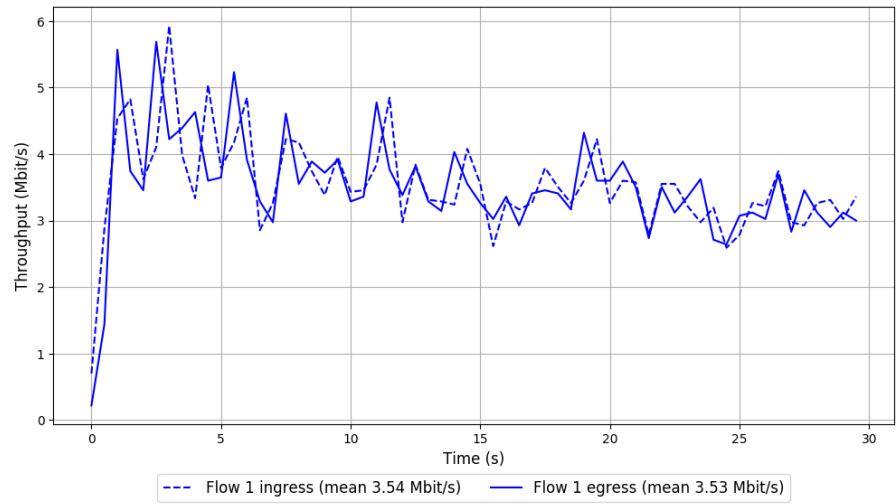
-- Flow 1:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 182.739 ms

Loss rate: 0.97%

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of KohoCC

Start at: Sun, 06 Aug 2017 07:18:33 +0000

End at: Sun, 06 Aug 2017 07:19:03 +0000

Local clock offset: 2.453 ms

Remote clock offset: -0.109 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:22 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.32 Mbit/s

95th percentile per-packet one-way delay: 182.785 ms

Loss rate: 1.10%

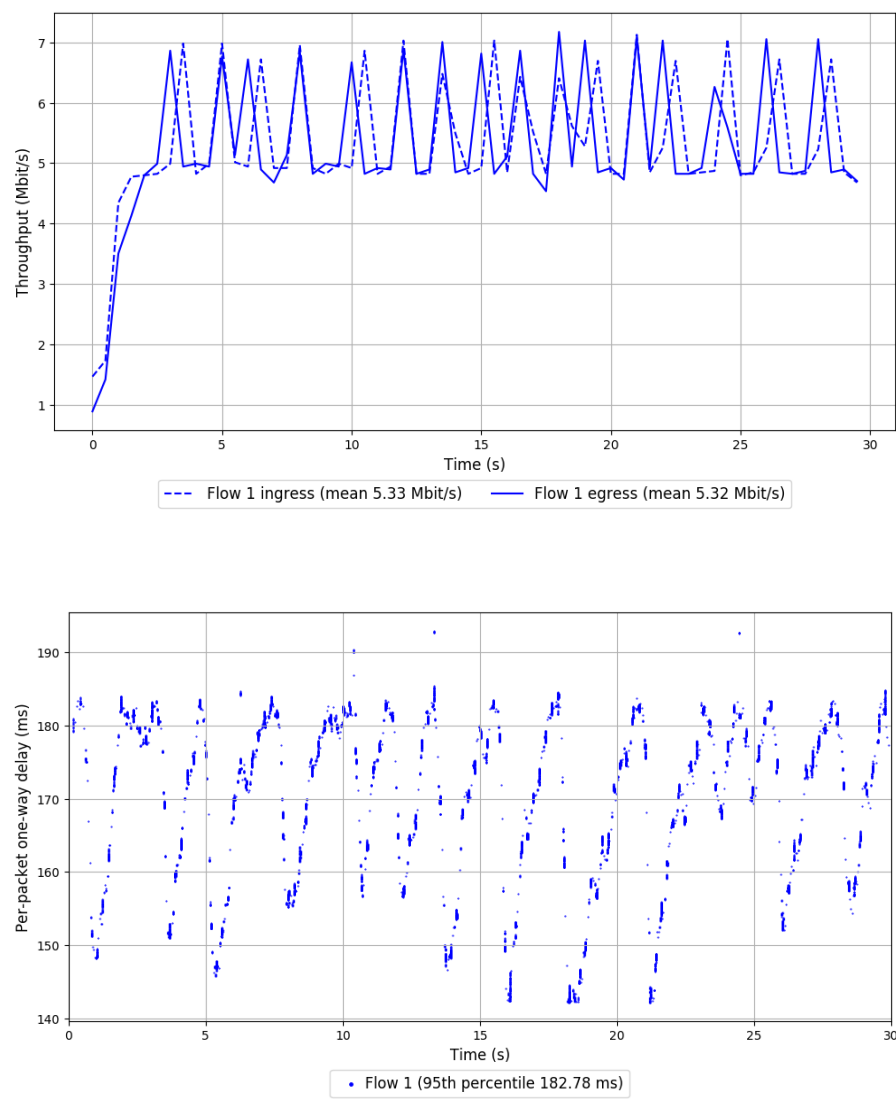
-- Flow 1:

Average throughput: 5.32 Mbit/s

95th percentile per-packet one-way delay: 182.785 ms

Loss rate: 1.10%

Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: Sun, 06 Aug 2017 07:38:19 +0000

End at: Sun, 06 Aug 2017 07:38:49 +0000

Local clock offset: 2.284 ms

Remote clock offset: 0.367 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:23 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 182.957 ms

Loss rate: 0.96%

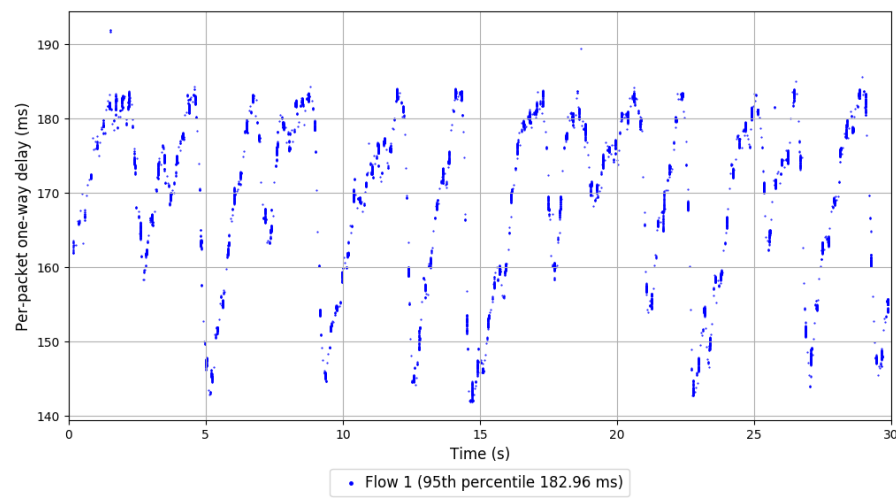
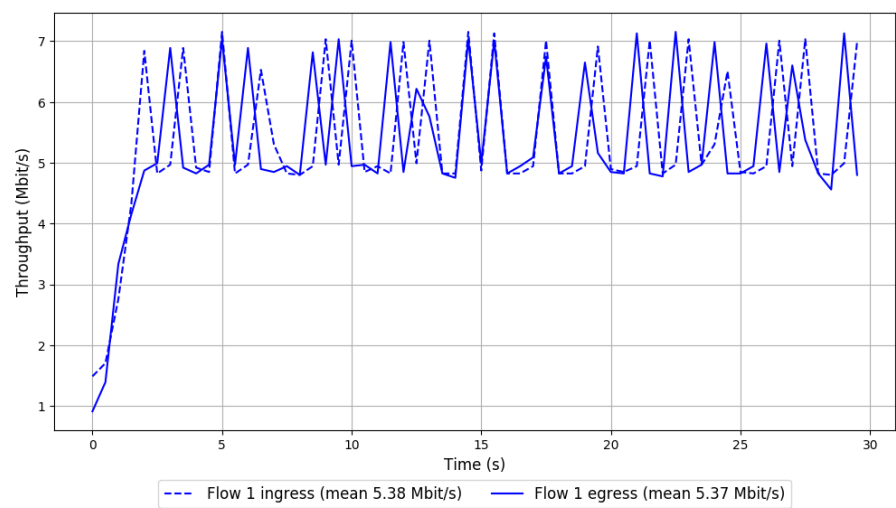
-- Flow 1:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 182.957 ms

Loss rate: 0.96%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: Sun, 06 Aug 2017 07:58:06 +0000

End at: Sun, 06 Aug 2017 07:58:36 +0000

Local clock offset: 2.021 ms

Remote clock offset: 0.628 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:24 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.36 Mbit/s

95th percentile per-packet one-way delay: 181.993 ms

Loss rate: 0.87%

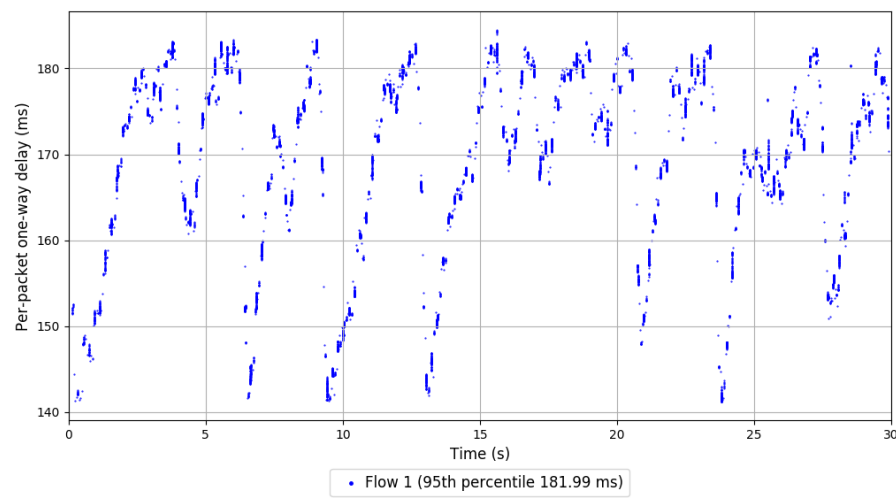
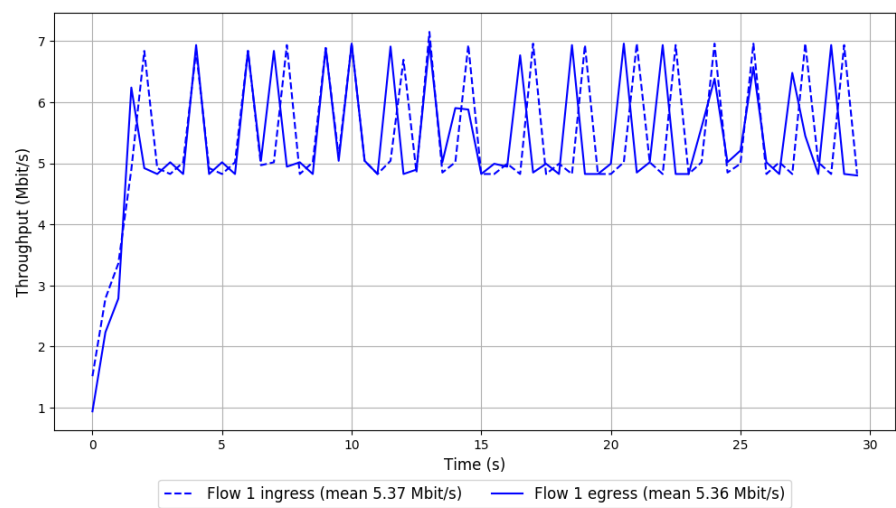
-- Flow 1:

Average throughput: 5.36 Mbit/s

95th percentile per-packet one-way delay: 181.993 ms

Loss rate: 0.87%

Run 3: Report of KohoCC — Data Link



Run 1: Statistics of LEDBAT

Start at: Sun, 06 Aug 2017 07:21:31 +0000

End at: Sun, 06 Aug 2017 07:22:01 +0000

Local clock offset: 3.227 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:24 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 182.757 ms

Loss rate: 0.73%

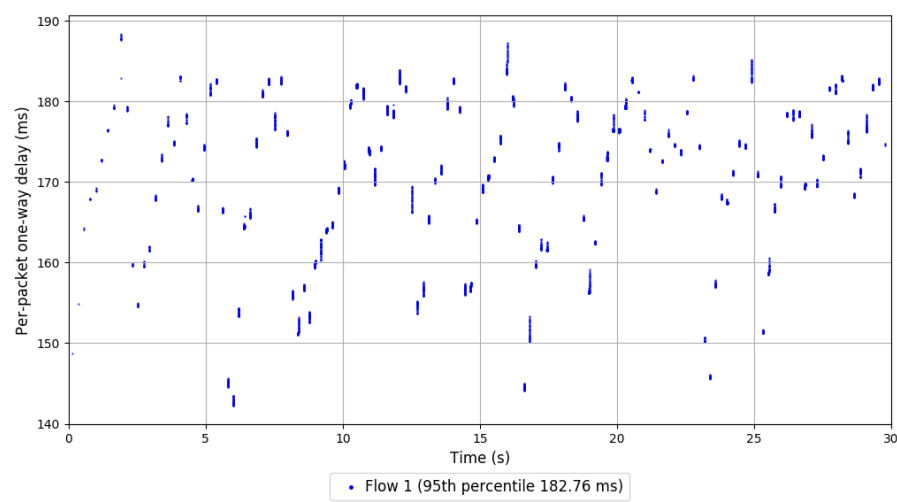
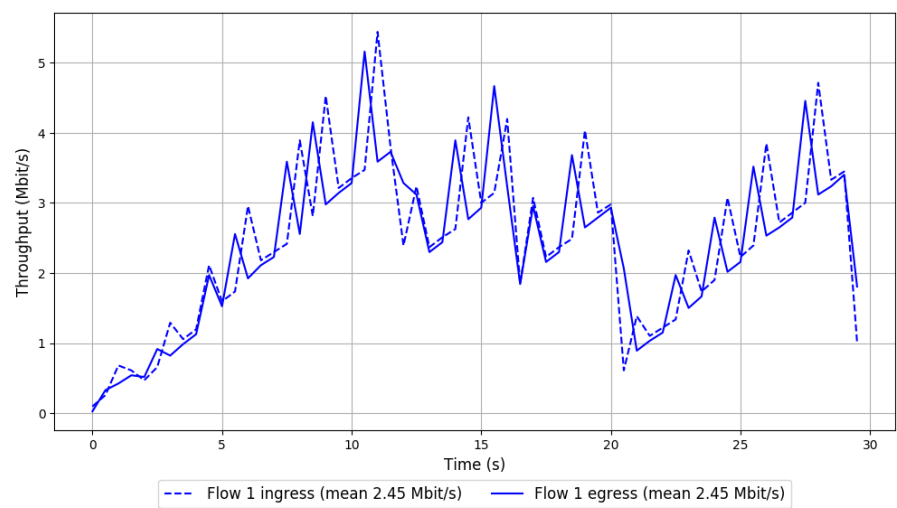
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 182.757 ms

Loss rate: 0.73%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: Sun, 06 Aug 2017 07:41:00 +0000

End at: Sun, 06 Aug 2017 07:41:30 +0000

Local clock offset: 2.303 ms

Remote clock offset: 0.458 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:25 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 183.104 ms

Loss rate: 0.43%

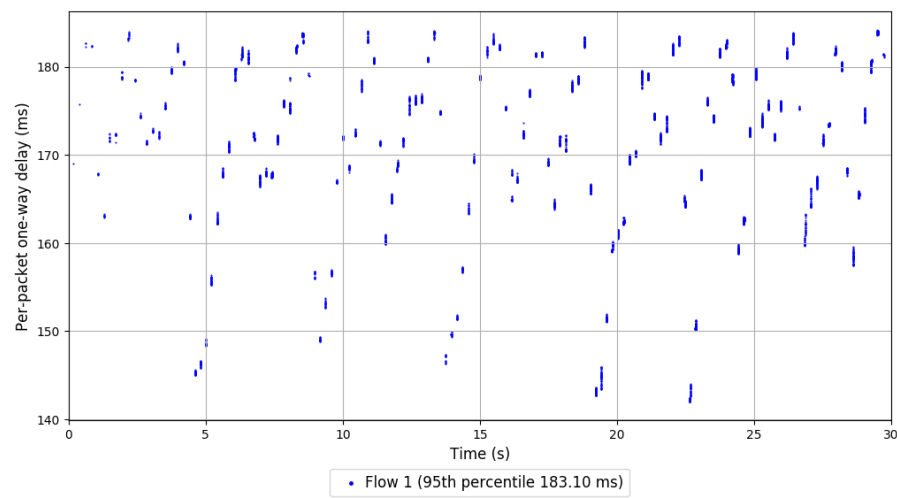
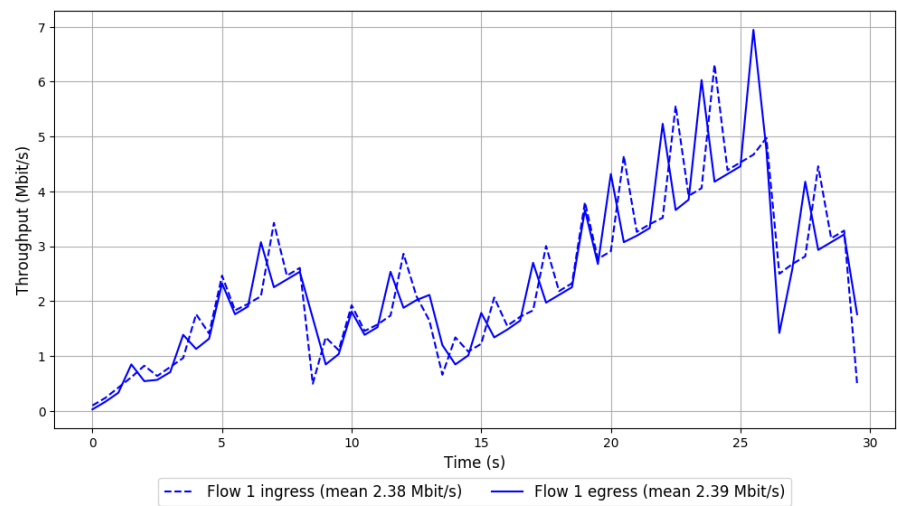
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 183.104 ms

Loss rate: 0.43%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: Sun, 06 Aug 2017 08:00:54 +0000

End at: Sun, 06 Aug 2017 08:01:24 +0000

Local clock offset: 1.631 ms

Remote clock offset: 0.675 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:26 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 181.414 ms

Loss rate: 0.44%

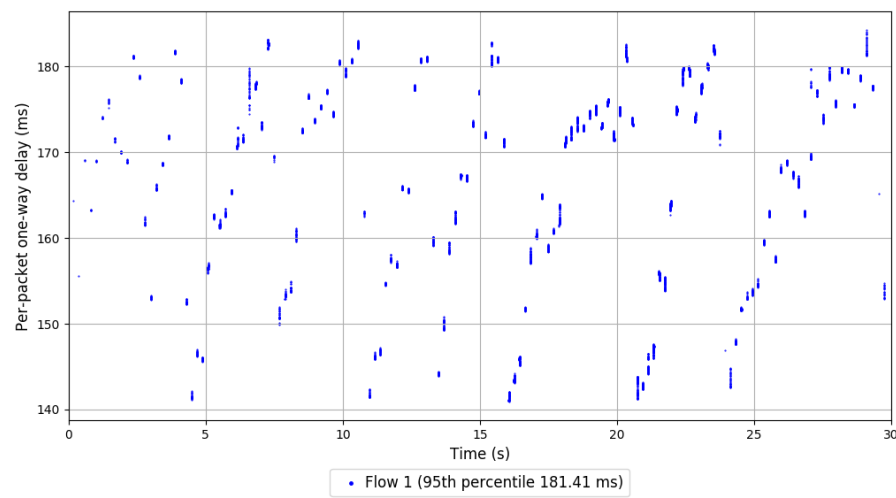
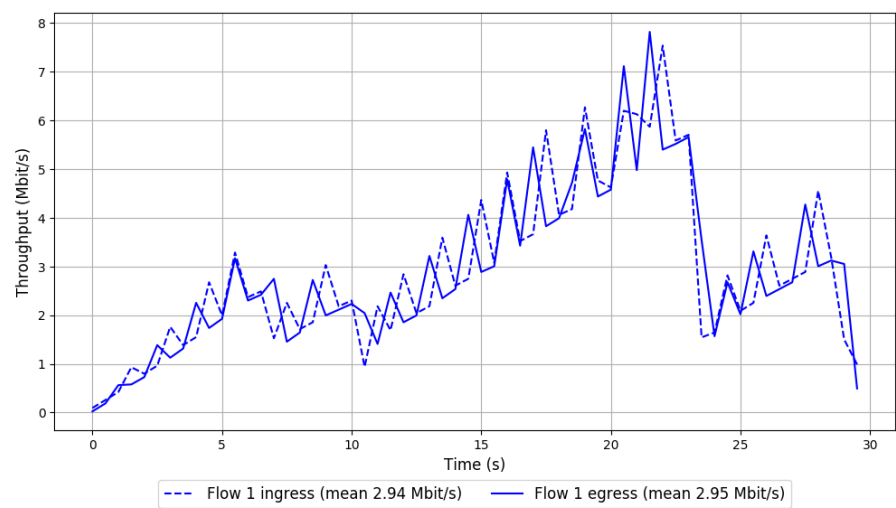
-- Flow 1:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 181.414 ms

Loss rate: 0.44%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: Sun, 06 Aug 2017 07:13:09 +0000

End at: Sun, 06 Aug 2017 07:13:39 +0000

Local clock offset: 2.412 ms

Remote clock offset: -0.205 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:31 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.37 Mbit/s

95th percentile per-packet one-way delay: 182.596 ms

Loss rate: 1.38%

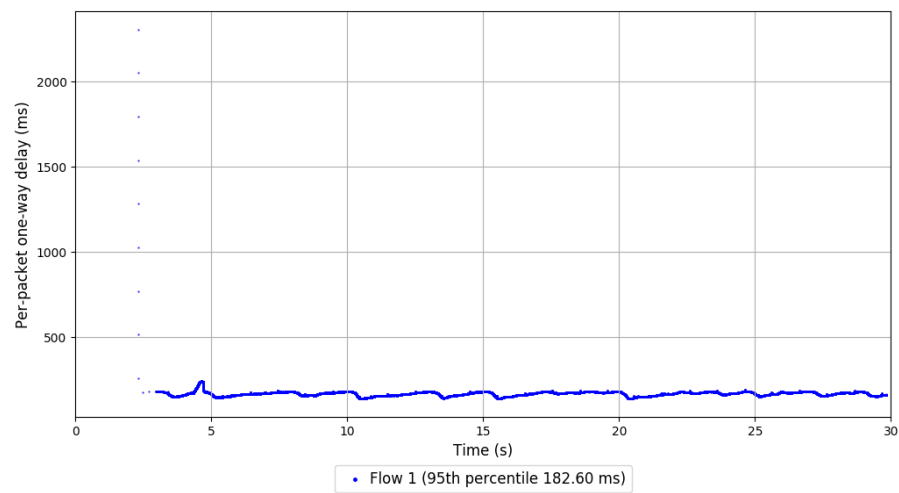
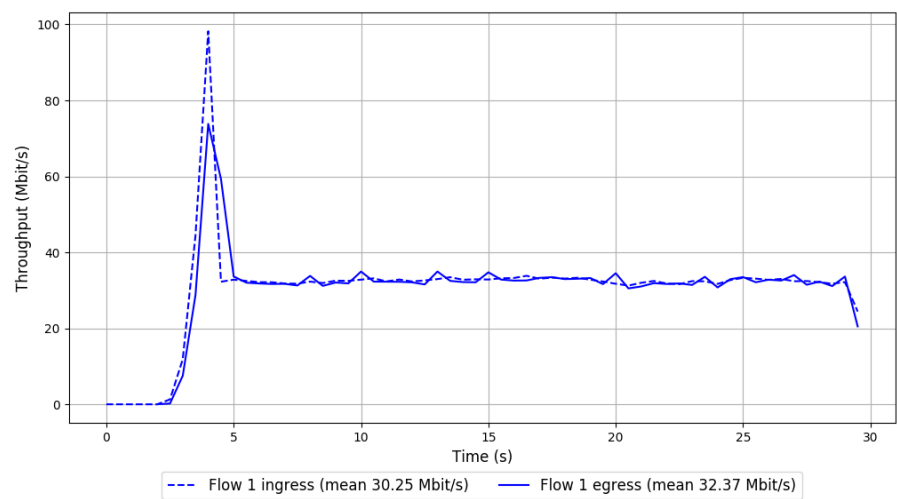
-- Flow 1:

Average throughput: 32.37 Mbit/s

95th percentile per-packet one-way delay: 182.596 ms

Loss rate: 1.38%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: Sun, 06 Aug 2017 07:33:07 +0000

End at: Sun, 06 Aug 2017 07:33:37 +0000

Local clock offset: 2.309 ms

Remote clock offset: 0.29 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:31 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 182.543 ms

Loss rate: 1.28%

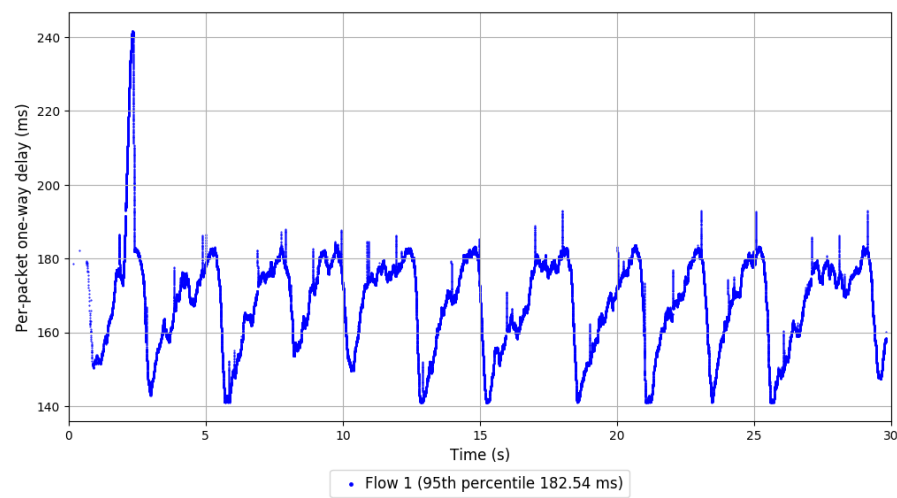
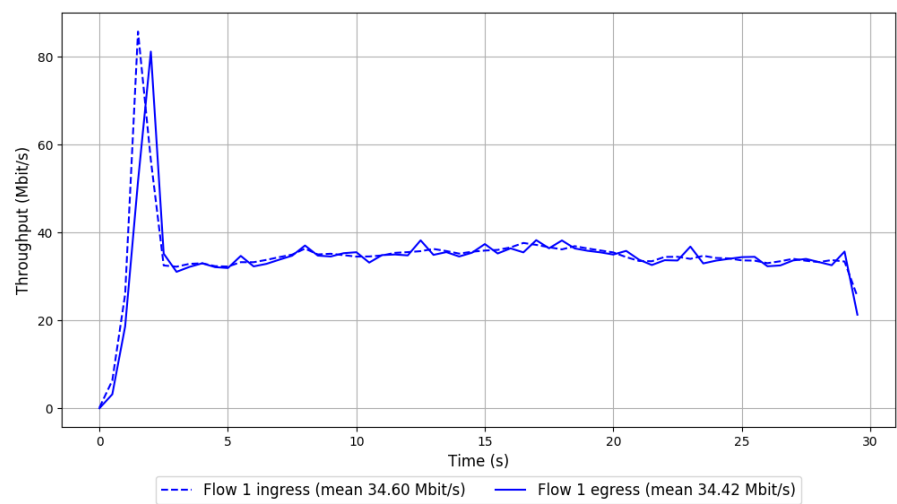
-- Flow 1:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 182.543 ms

Loss rate: 1.28%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: Sun, 06 Aug 2017 07:53:06 +0000

End at: Sun, 06 Aug 2017 07:53:36 +0000

Local clock offset: 2.085 ms

Remote clock offset: 0.593 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:33 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 182.081 ms

Loss rate: 0.94%

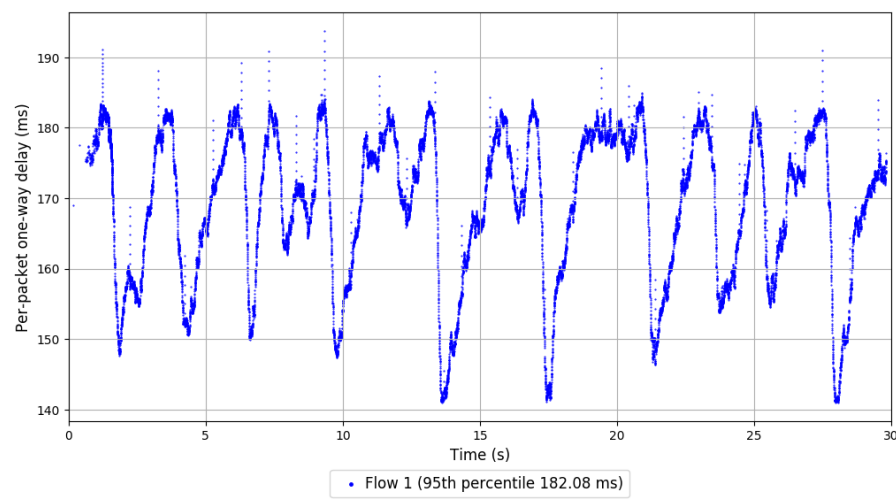
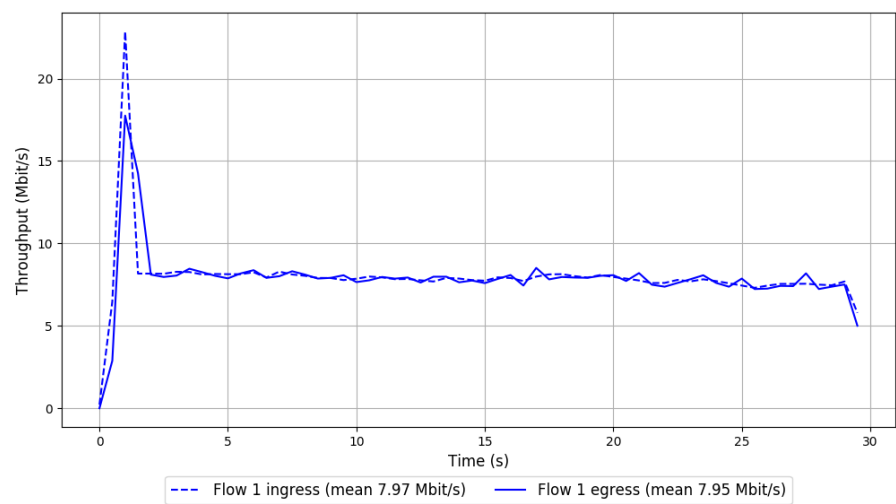
-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 182.081 ms

Loss rate: 0.94%

Run 3: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: Sun, 06 Aug 2017 07:25:20 +0000

End at: Sun, 06 Aug 2017 07:25:50 +0000

Local clock offset: 3.238 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:33 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 183.904 ms

Loss rate: 1.24%

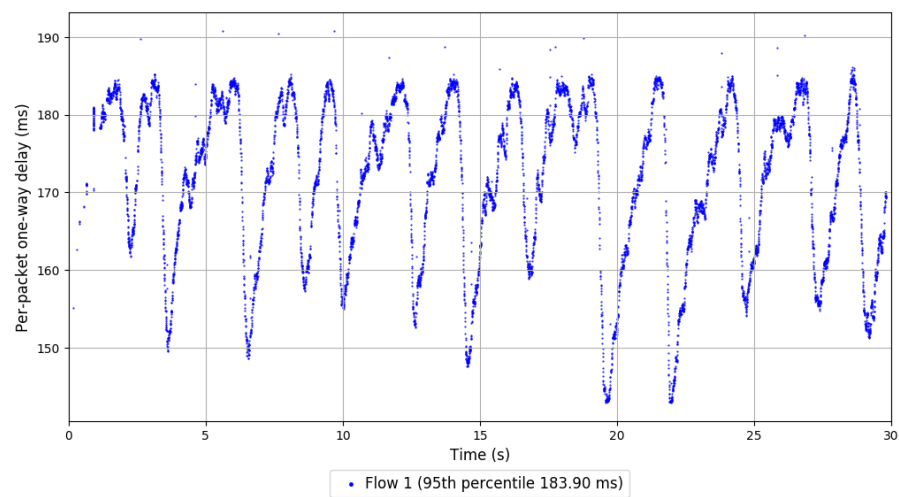
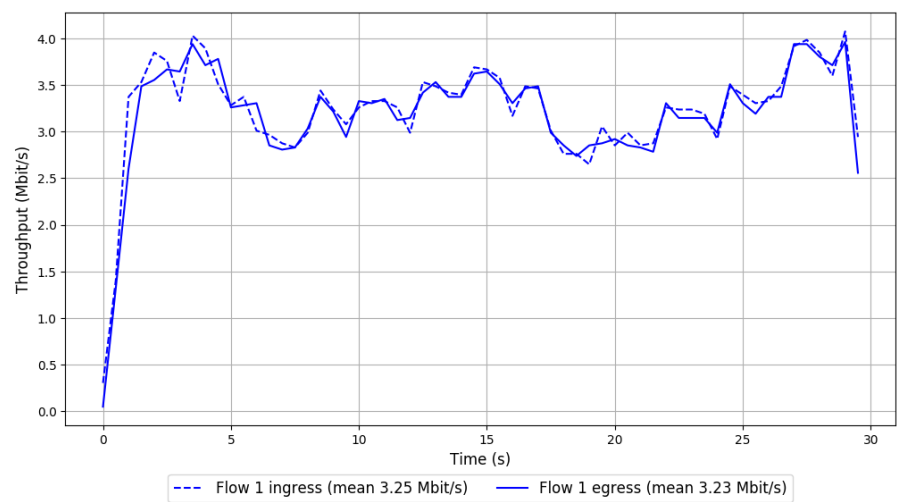
-- Flow 1:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 183.904 ms

Loss rate: 1.24%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: Sun, 06 Aug 2017 07:44:42 +0000

End at: Sun, 06 Aug 2017 07:45:12 +0000

Local clock offset: 2.188 ms

Remote clock offset: 0.5 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:34 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 182.744 ms

Loss rate: 1.27%

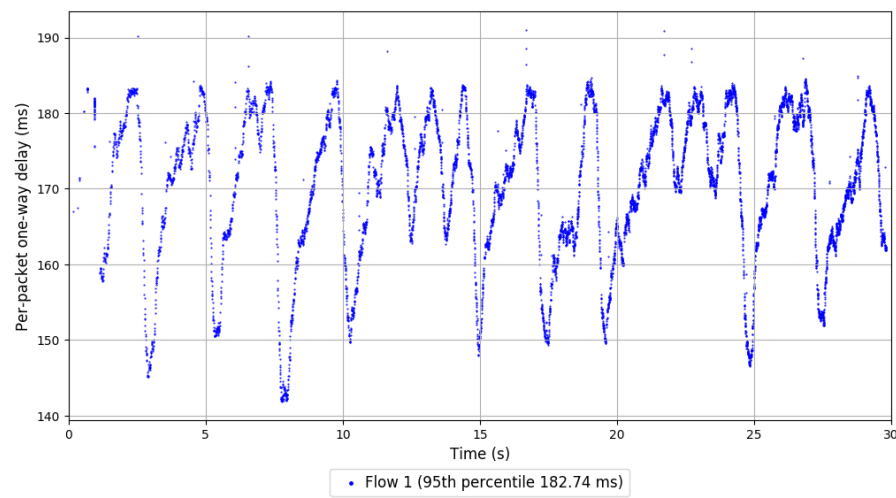
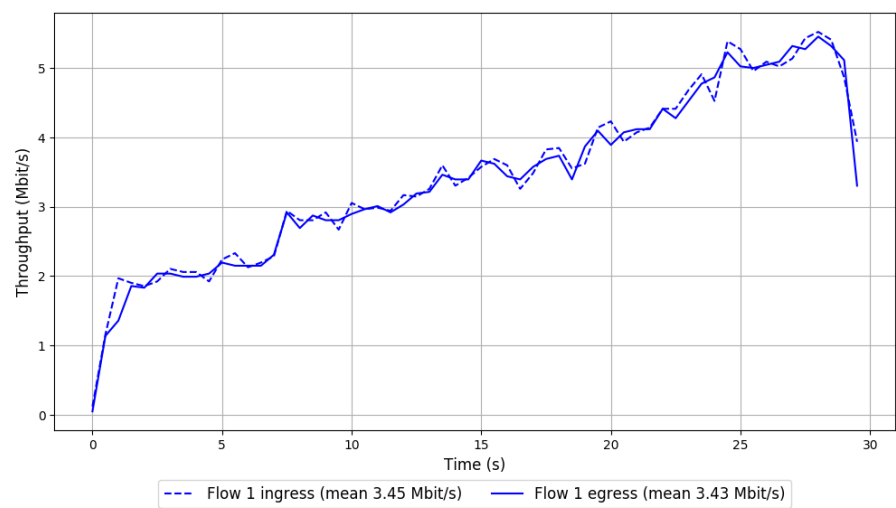
-- Flow 1:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 182.744 ms

Loss rate: 1.27%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: Sun, 06 Aug 2017 08:04:39 +0000

End at: Sun, 06 Aug 2017 08:05:09 +0000

Local clock offset: 2.772 ms

Remote clock offset: 0.793 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:38 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.51 Mbit/s

95th percentile per-packet one-way delay: 183.135 ms

Loss rate: 0.85%

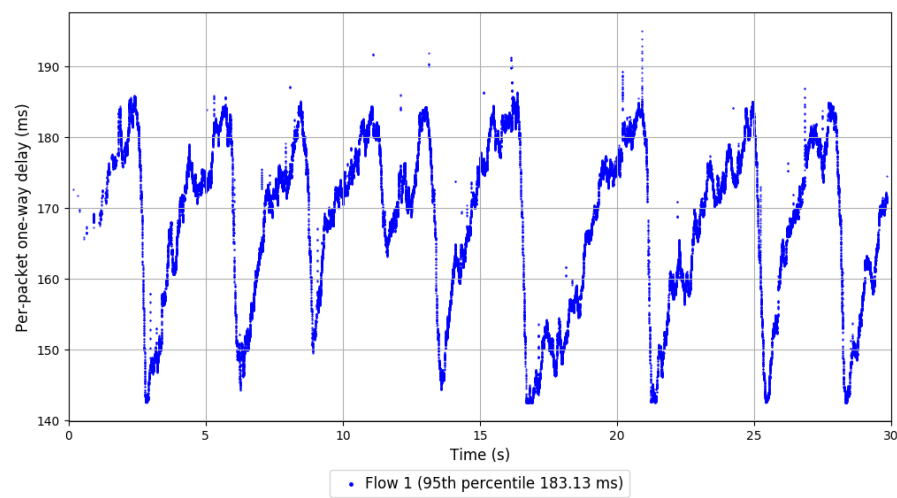
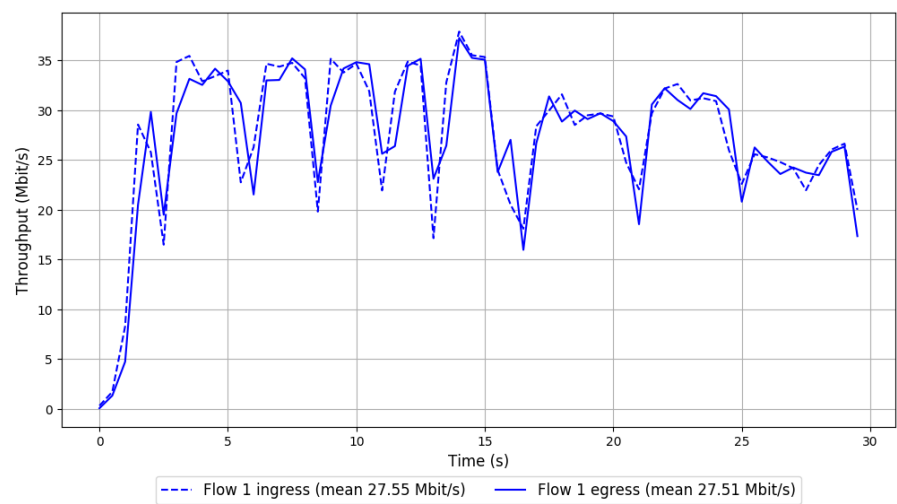
-- Flow 1:

Average throughput: 27.51 Mbit/s

95th percentile per-packet one-way delay: 183.135 ms

Loss rate: 0.85%

Run 3: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: Sun, 06 Aug 2017 07:14:34 +0000

End at: Sun, 06 Aug 2017 07:15:04 +0000

Local clock offset: 1.885 ms

Remote clock offset: -0.192 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:38 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.80 Mbit/s

95th percentile per-packet one-way delay: 181.731 ms

Loss rate: 0.95%

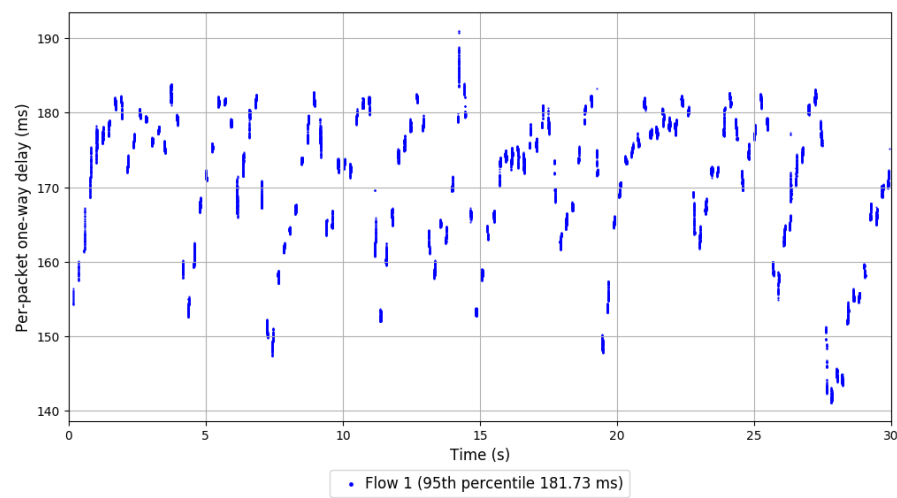
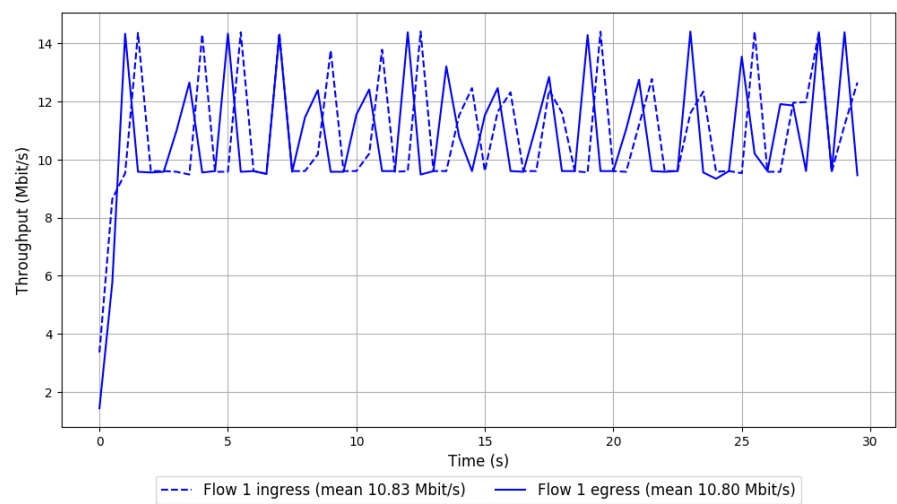
-- Flow 1:

Average throughput: 10.80 Mbit/s

95th percentile per-packet one-way delay: 181.731 ms

Loss rate: 0.95%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: Sun, 06 Aug 2017 07:34:32 +0000

End at: Sun, 06 Aug 2017 07:35:02 +0000

Local clock offset: 2.236 ms

Remote clock offset: 0.34 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:38 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 182.718 ms

Loss rate: 0.85%

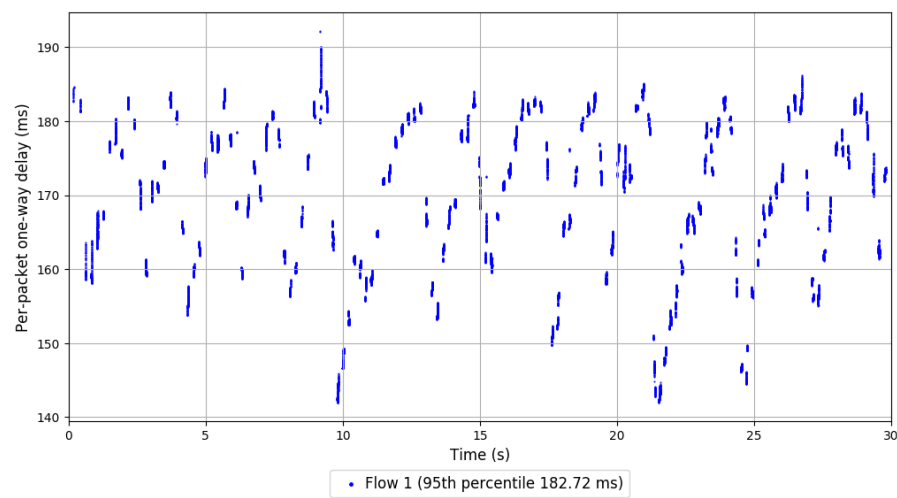
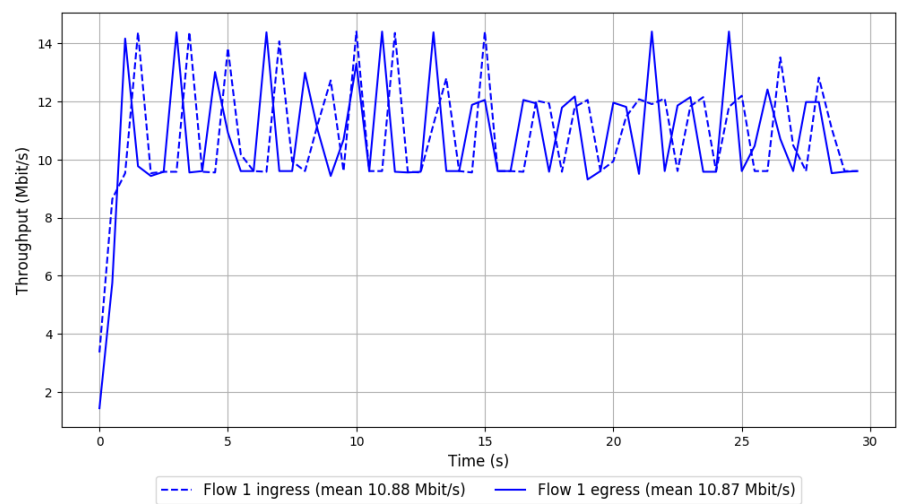
-- Flow 1:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 182.718 ms

Loss rate: 0.85%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: Sun, 06 Aug 2017 07:54:21 +0000

End at: Sun, 06 Aug 2017 07:54:51 +0000

Local clock offset: 2.089 ms

Remote clock offset: 0.626 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:41 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 182.229 ms

Loss rate: 0.91%

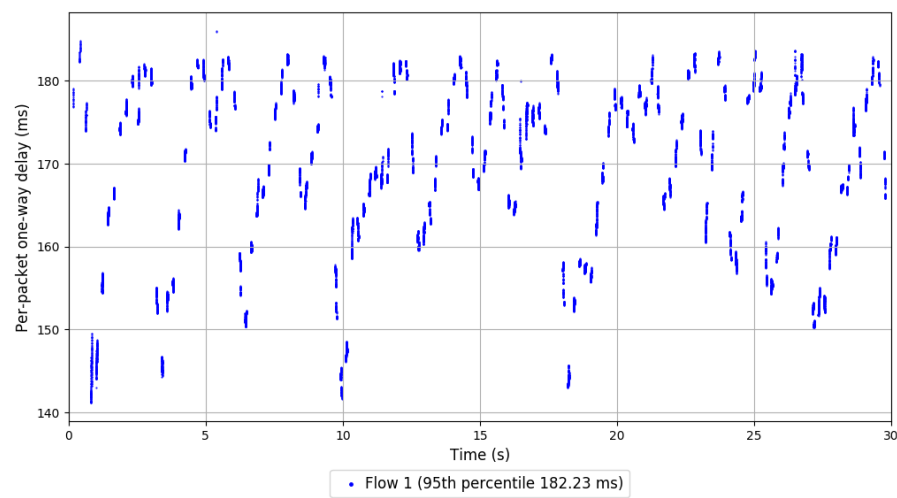
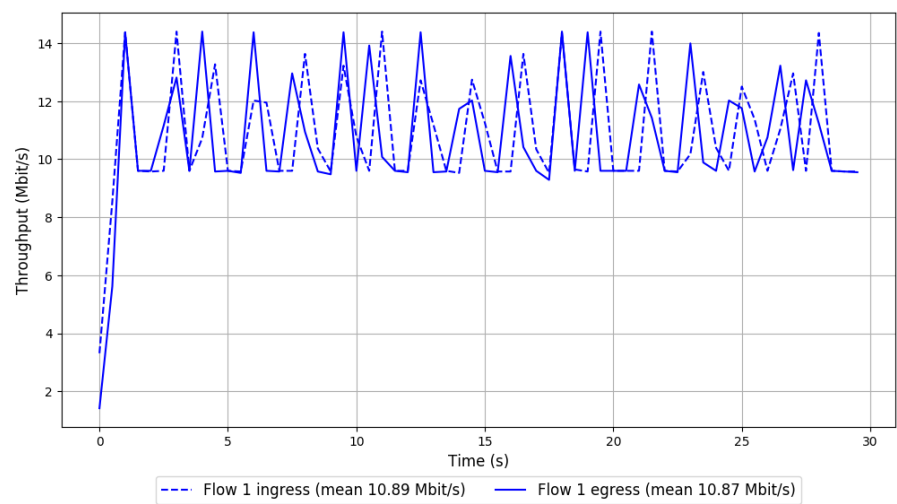
-- Flow 1:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 182.229 ms

Loss rate: 0.91%

Run 3: Report of Saturator — Data Link



Run 1: Statistics of SCReAM

Start at: Sun, 06 Aug 2017 07:24:05 +0000

End at: Sun, 06 Aug 2017 07:24:35 +0000

Local clock offset: 3.154 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:41 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 183.501 ms

Loss rate: 0.72%

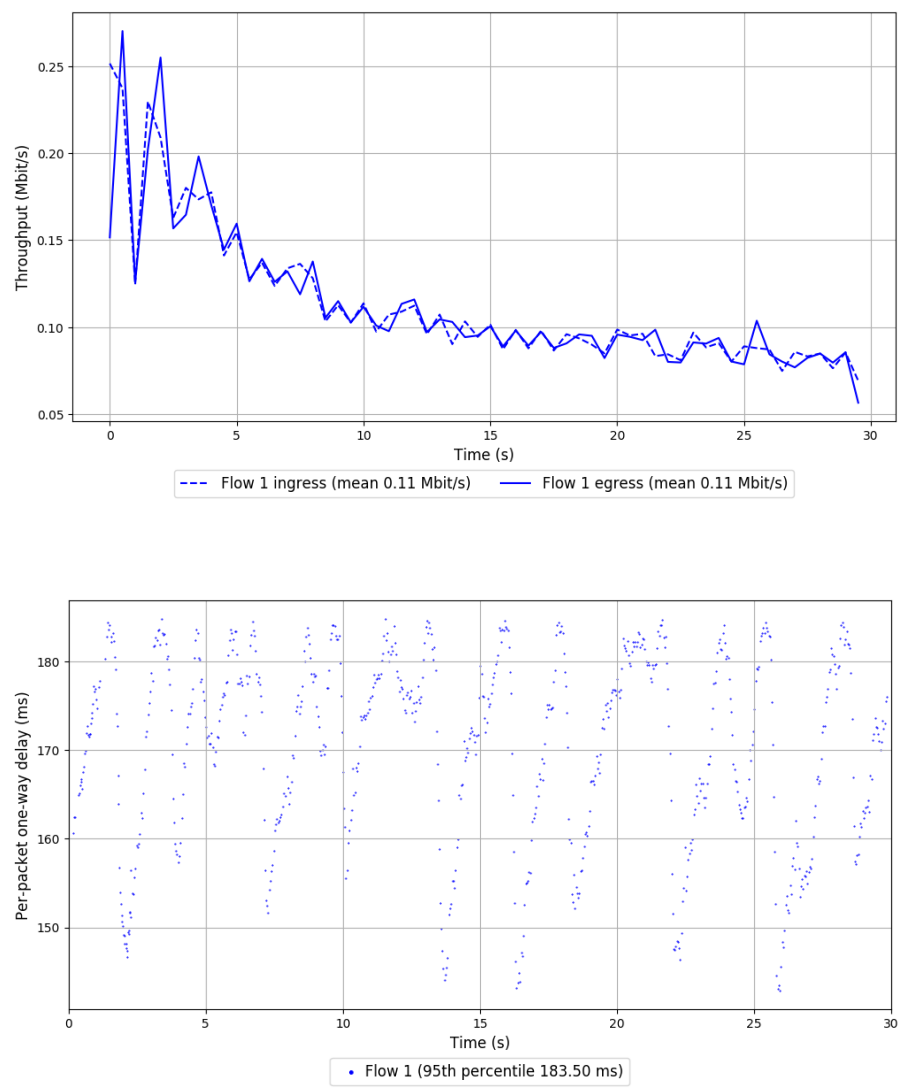
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 183.501 ms

Loss rate: 0.72%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: Sun, 06 Aug 2017 07:43:28 +0000

End at: Sun, 06 Aug 2017 07:43:58 +0000

Local clock offset: 1.798 ms

Remote clock offset: 0.474 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:41 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 182.164 ms

Loss rate: 0.57%

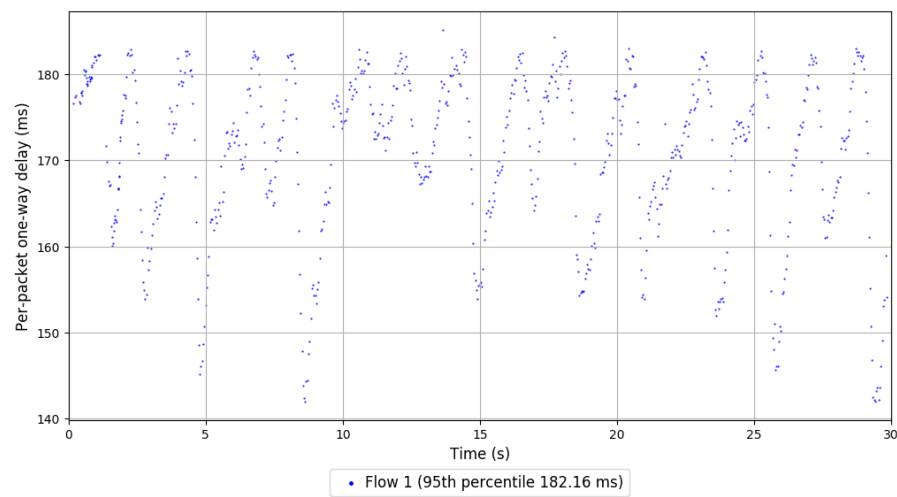
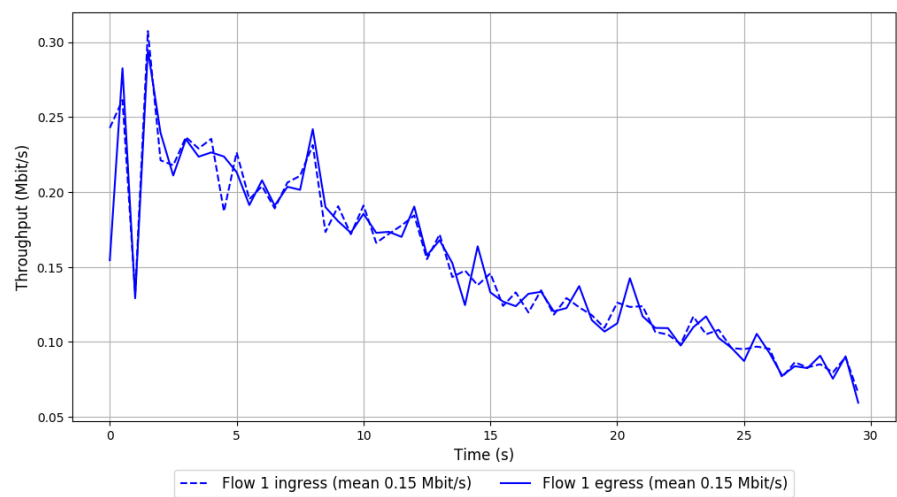
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 182.164 ms

Loss rate: 0.57%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: Sun, 06 Aug 2017 08:03:22 +0000

End at: Sun, 06 Aug 2017 08:03:52 +0000

Local clock offset: 2.754 ms

Remote clock offset: 0.761 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:41 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 182.138 ms

Loss rate: 0.53%

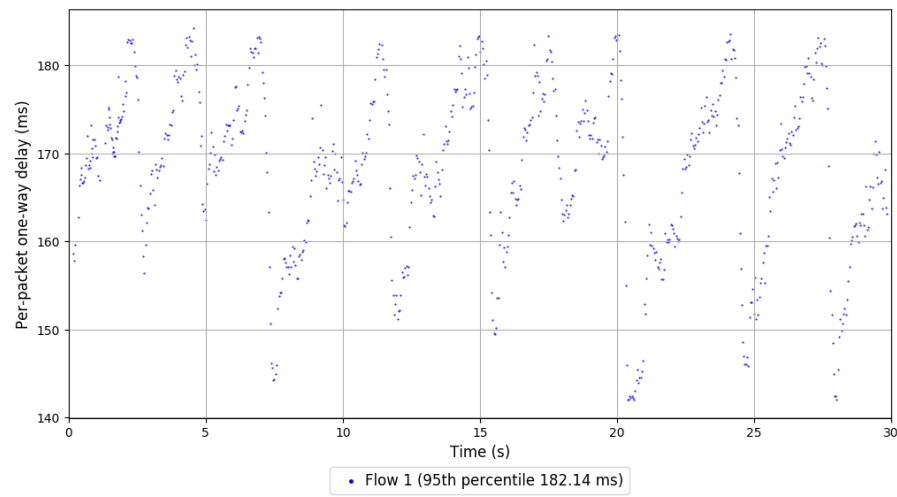
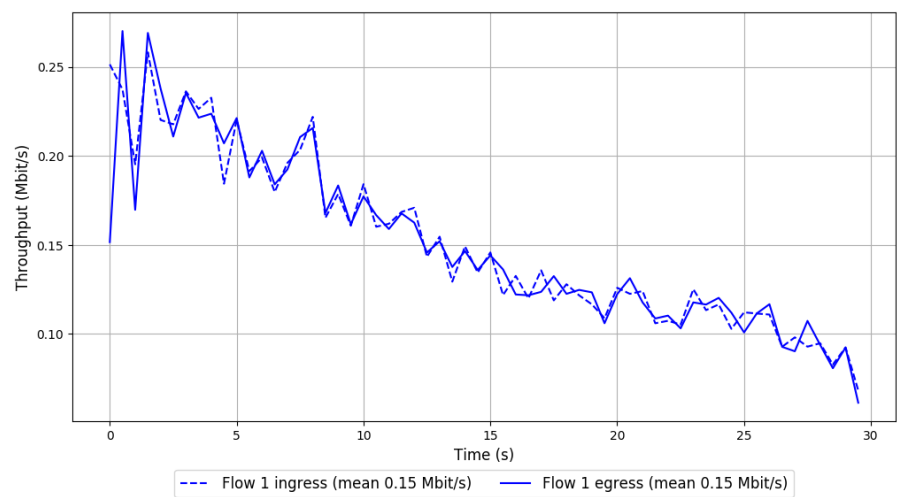
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 182.138 ms

Loss rate: 0.53%

Run 3: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: Sun, 06 Aug 2017 07:10:42 +0000

End at: Sun, 06 Aug 2017 07:11:12 +0000

Local clock offset: 2.856 ms

Remote clock offset: -0.26 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:42 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 183.815 ms

Loss rate: 0.98%

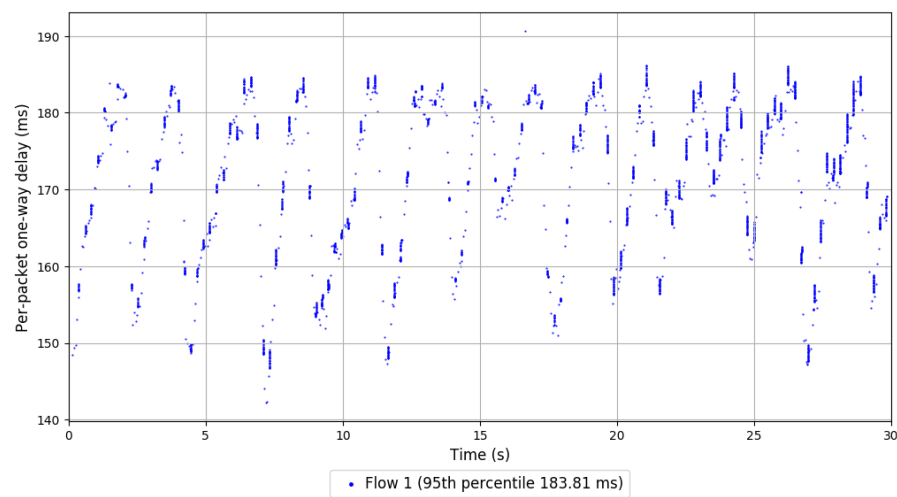
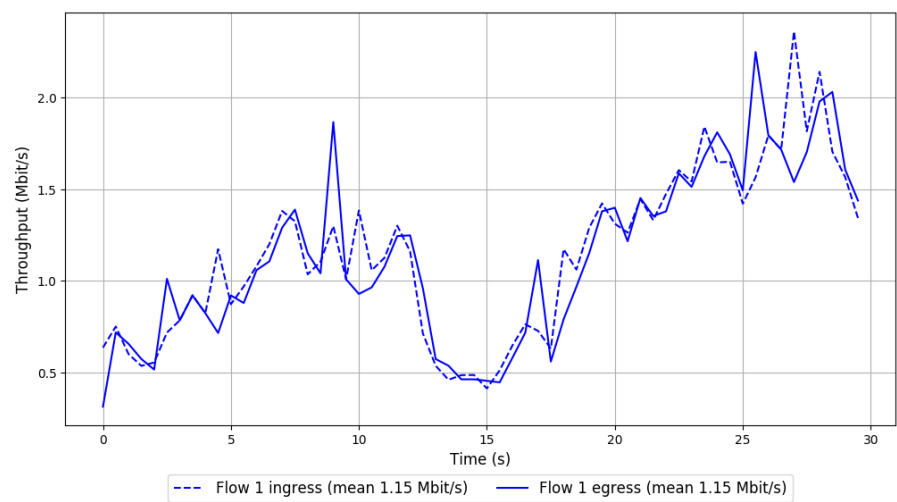
-- Flow 1:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 183.815 ms

Loss rate: 0.98%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: Sun, 06 Aug 2017 07:30:39 +0000

End at: Sun, 06 Aug 2017 07:31:09 +0000

Local clock offset: 2.323 ms

Remote clock offset: 0.205 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:42 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 183.535 ms

Loss rate: 0.70%

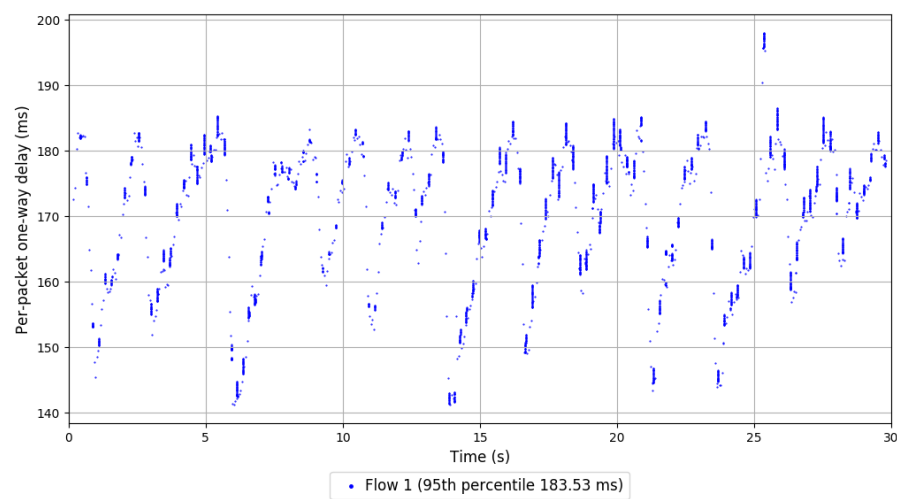
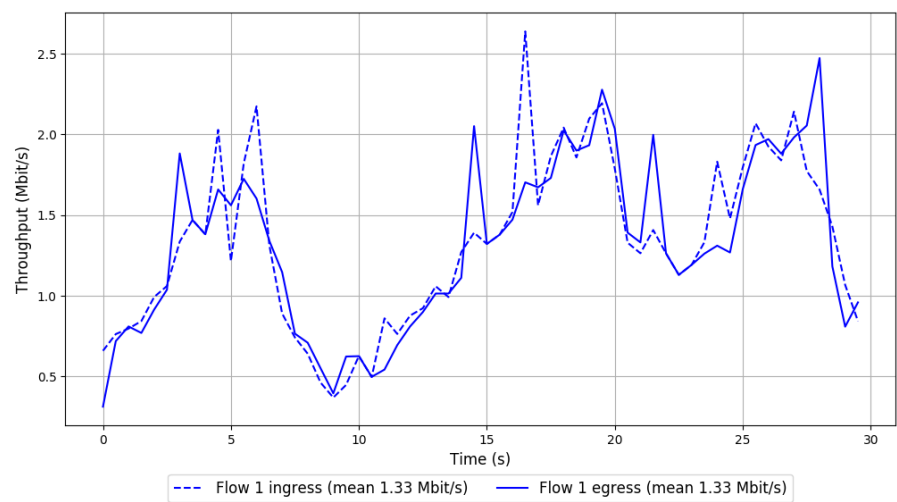
-- Flow 1:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 183.535 ms

Loss rate: 0.70%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: Sun, 06 Aug 2017 07:50:39 +0000

End at: Sun, 06 Aug 2017 07:51:09 +0000

Local clock offset: 2.155 ms

Remote clock offset: 0.557 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:43 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 183.101 ms

Loss rate: 1.02%

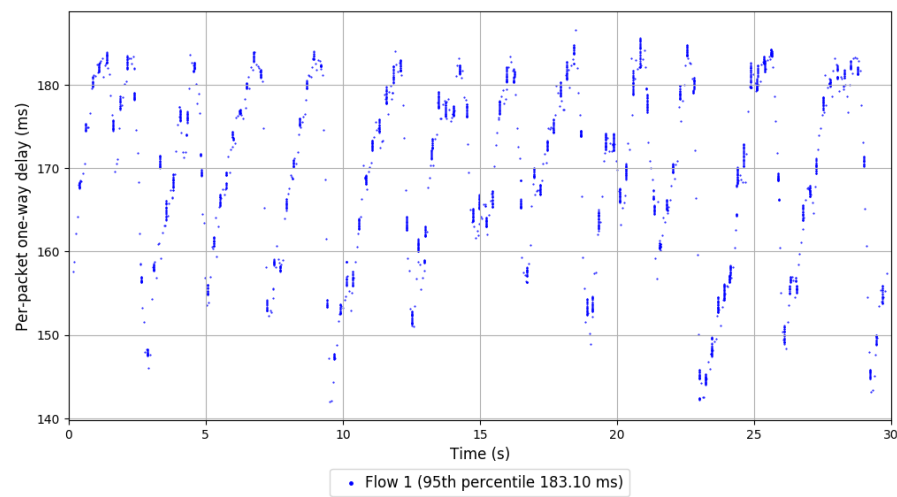
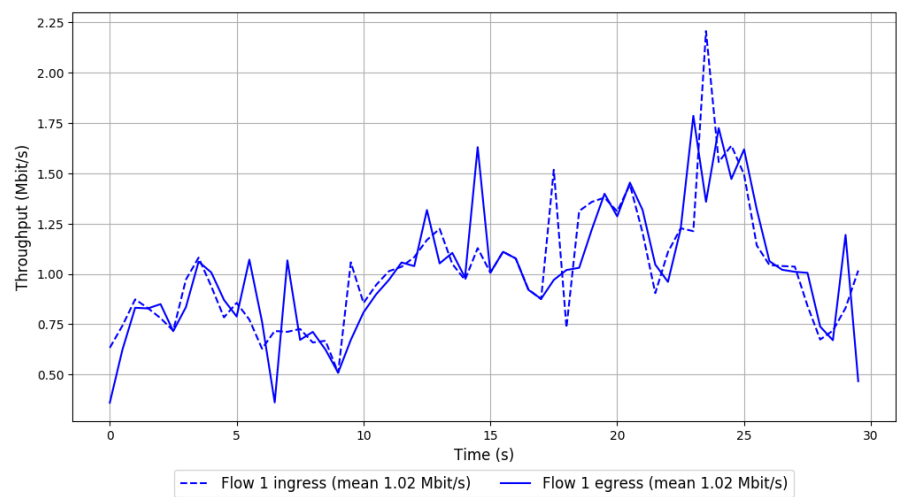
-- Flow 1:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 183.101 ms

Loss rate: 1.02%

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: Sun, 06 Aug 2017 07:06:16 +0000

End at: Sun, 06 Aug 2017 07:06:46 +0000

Local clock offset: 2.403 ms

Remote clock offset: -0.532 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:52 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.90 Mbit/s

95th percentile per-packet one-way delay: 182.849 ms

Loss rate: 0.71%

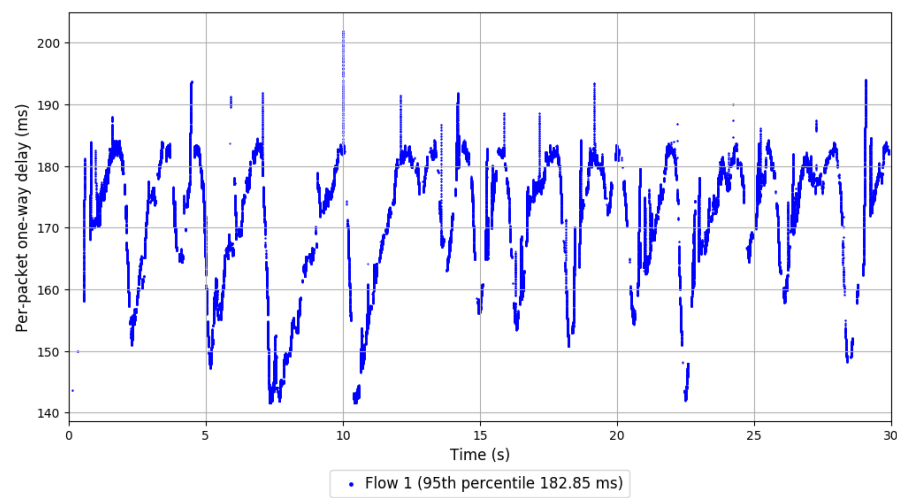
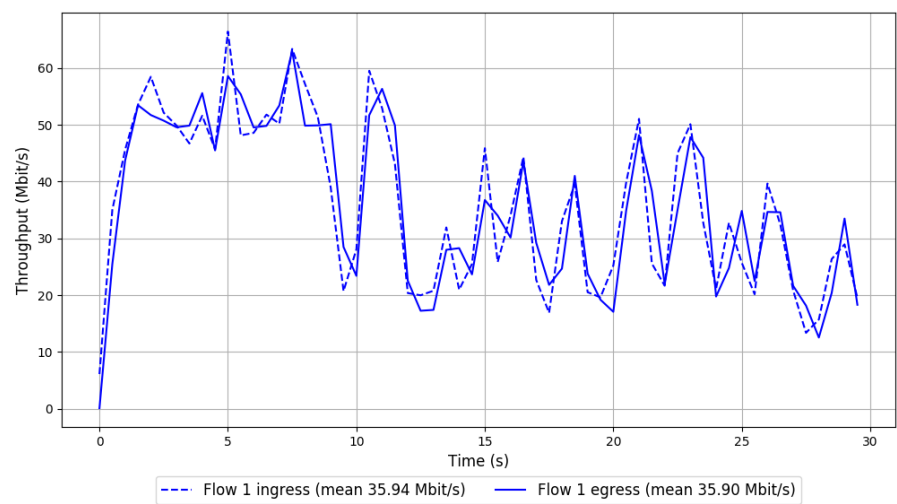
-- Flow 1:

Average throughput: 35.90 Mbit/s

95th percentile per-packet one-way delay: 182.849 ms

Loss rate: 0.71%

Run 1: Report of TaoVA-100x — Data Link



Run 2: Statistics of TaoVA-100x

Start at: Sun, 06 Aug 2017 07:26:35 +0000

End at: Sun, 06 Aug 2017 07:27:05 +0000

Local clock offset: 2.562 ms

Remote clock offset: 0.193 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:05:52 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.20 Mbit/s

95th percentile per-packet one-way delay: 183.385 ms

Loss rate: 0.79%

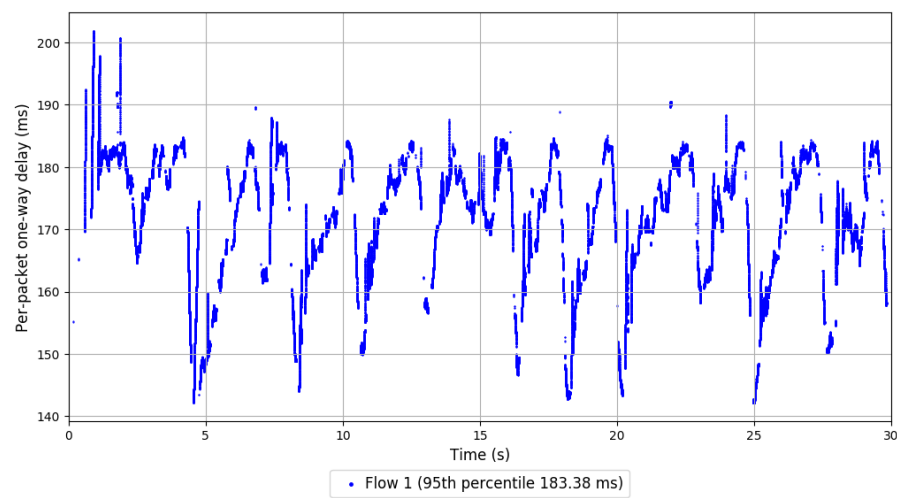
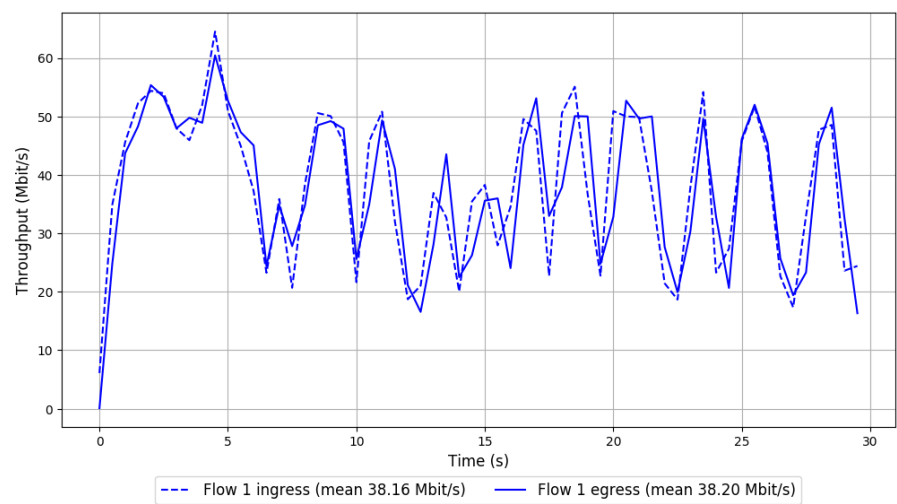
-- Flow 1:

Average throughput: 38.20 Mbit/s

95th percentile per-packet one-way delay: 183.385 ms

Loss rate: 0.79%

Run 2: Report of TaoVA-100x — Data Link



Run 3: Statistics of TaoVA-100x

Start at: Sun, 06 Aug 2017 07:45:58 +0000

End at: Sun, 06 Aug 2017 07:46:28 +0000

Local clock offset: 2.229 ms

Remote clock offset: 0.526 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:06:01 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.60 Mbit/s

95th percentile per-packet one-way delay: 182.836 ms

Loss rate: 0.79%

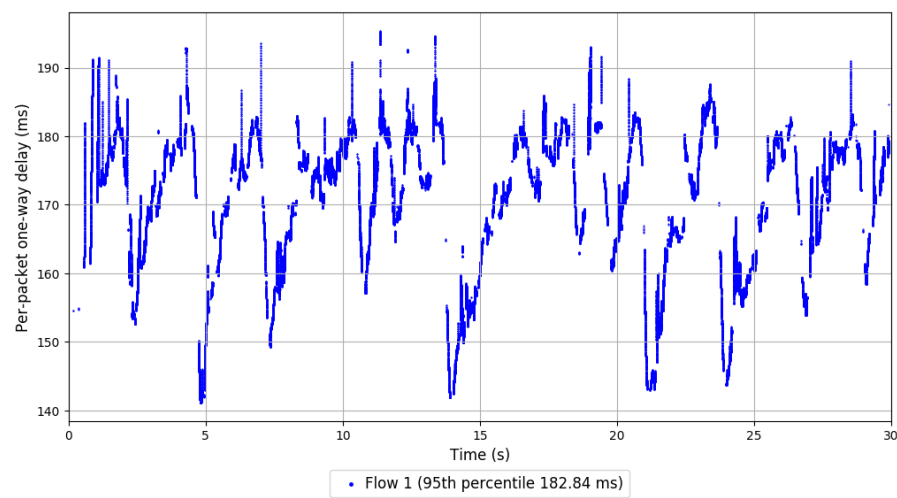
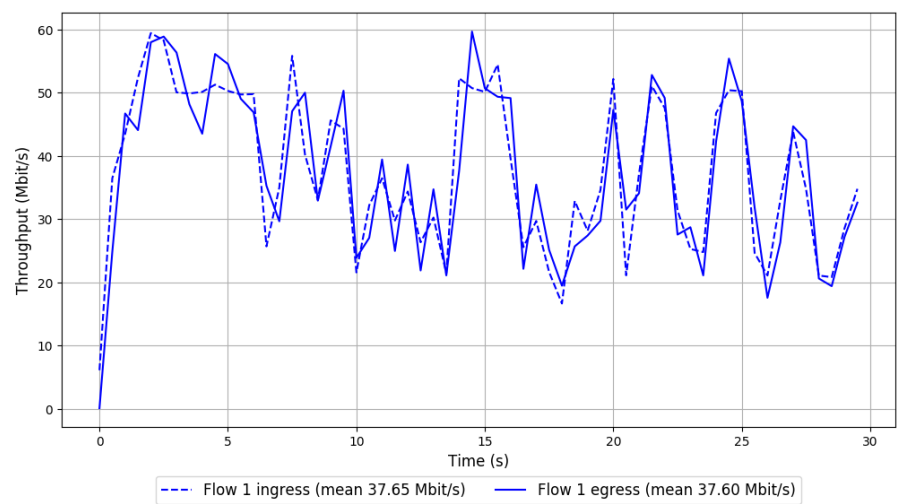
-- Flow 1:

Average throughput: 37.60 Mbit/s

95th percentile per-packet one-way delay: 182.836 ms

Loss rate: 0.79%

Run 3: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: Sun, 06 Aug 2017 07:09:28 +0000

End at: Sun, 06 Aug 2017 07:09:58 +0000

Local clock offset: 3.247 ms

Remote clock offset: -0.269 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:06:01 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 183.412 ms

Loss rate: 1.00%

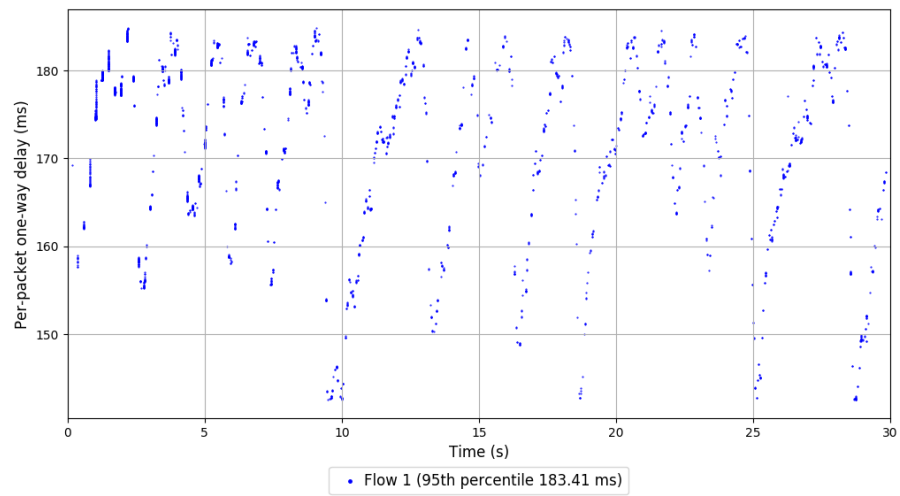
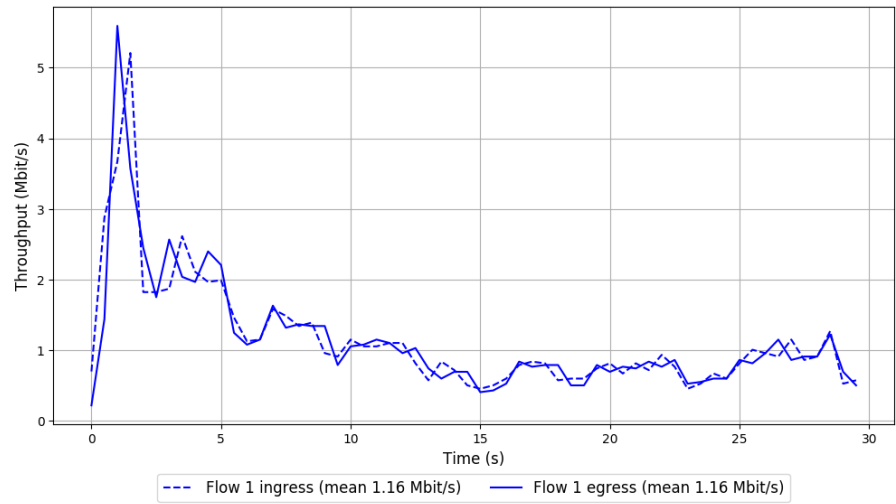
-- Flow 1:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 183.412 ms

Loss rate: 1.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

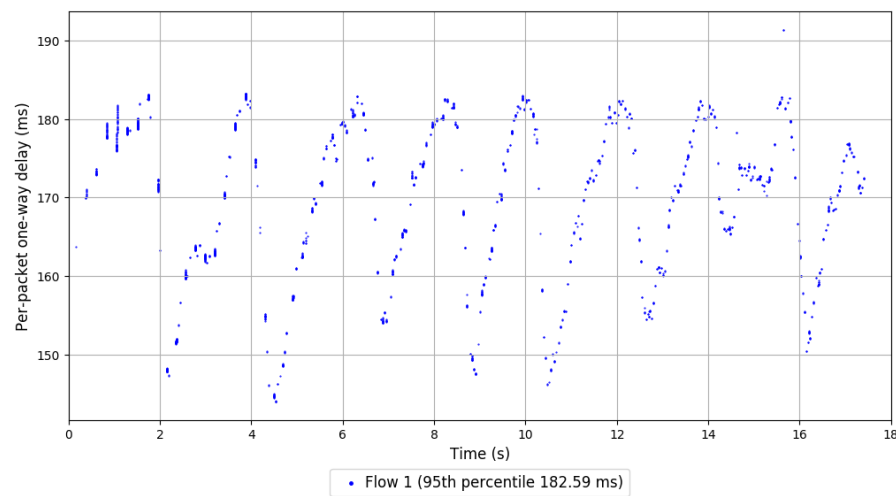
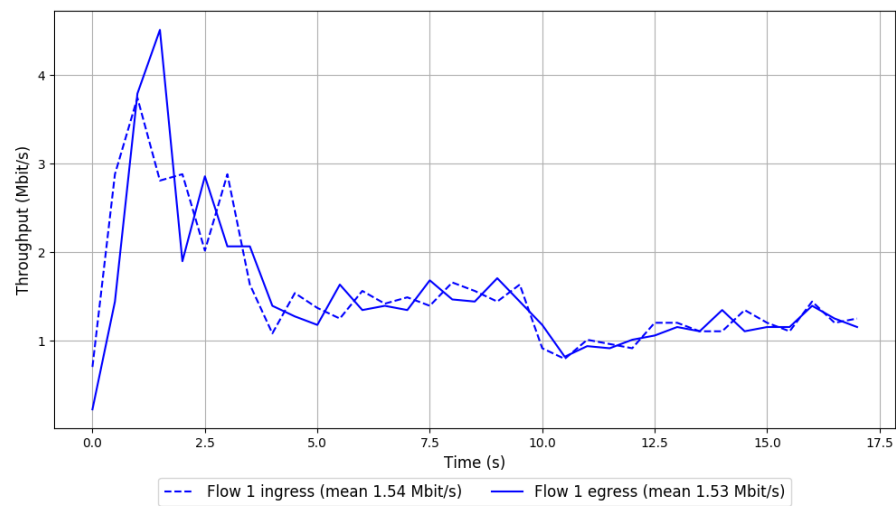
Start at: Sun, 06 Aug 2017 07:29:25 +0000

End at: Sun, 06 Aug 2017 07:29:55 +0000

Local clock offset: 2.335 ms

Remote clock offset: 0.242 ms

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: Sun, 06 Aug 2017 07:49:25 +0000

End at: Sun, 06 Aug 2017 07:49:55 +0000

Local clock offset: 2.227 ms

Remote clock offset: 0.586 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:06:01 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 182.726 ms

Loss rate: 0.74%

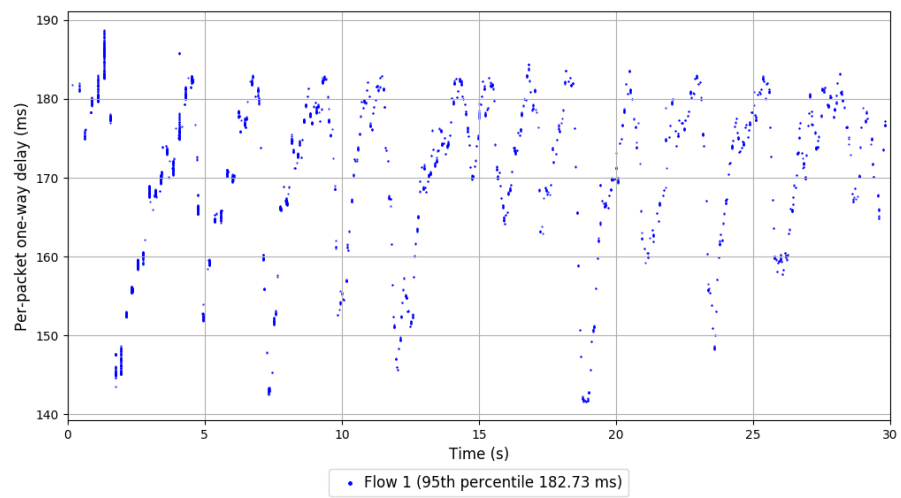
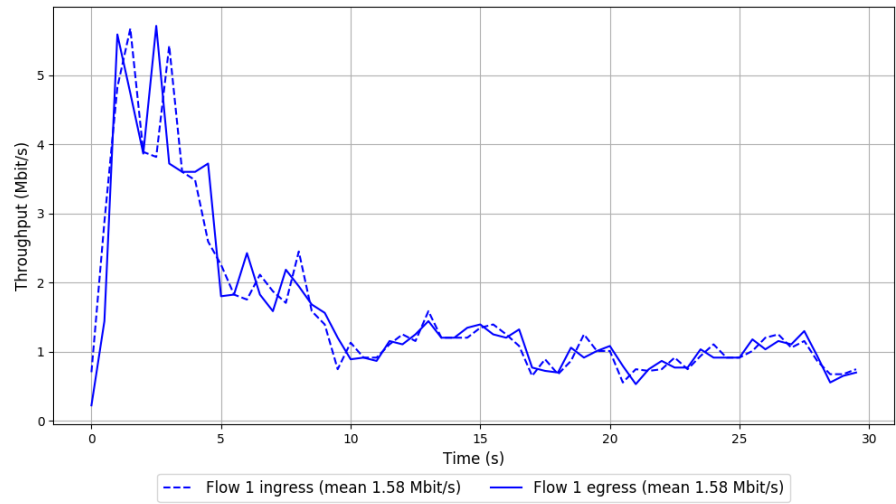
-- Flow 1:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 182.726 ms

Loss rate: 0.74%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: Sun, 06 Aug 2017 07:19:51 +0000

End at: Sun, 06 Aug 2017 07:20:21 +0000

Local clock offset: 2.363 ms

Remote clock offset: -0.021 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:06:01 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.76 Mbit/s

95th percentile per-packet one-way delay: 238.040 ms

Loss rate: 55.51%

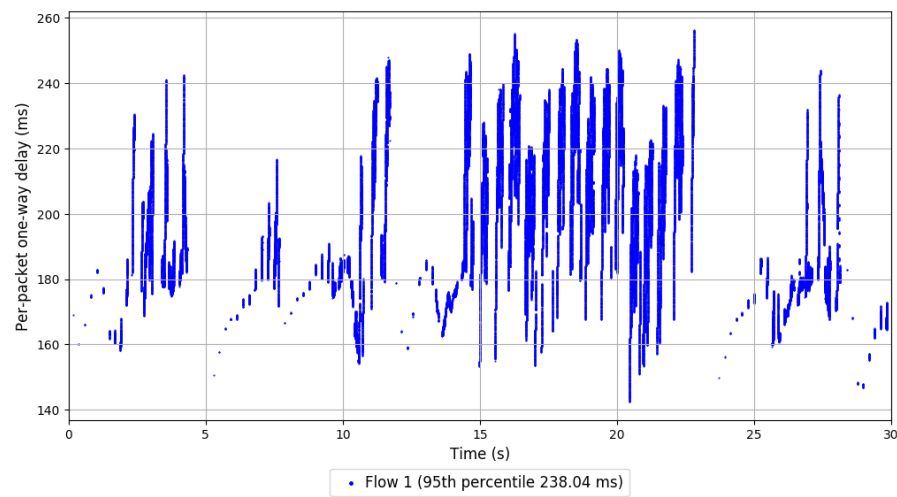
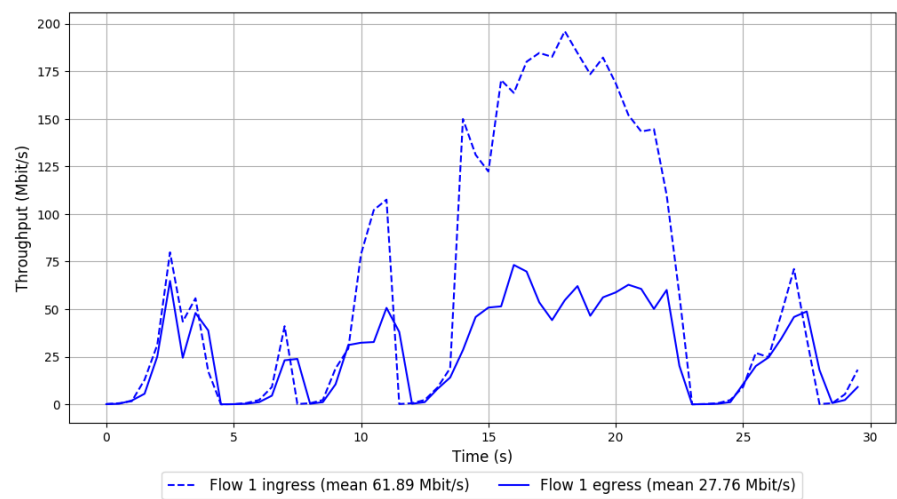
-- Flow 1:

Average throughput: 27.76 Mbit/s

95th percentile per-packet one-way delay: 238.040 ms

Loss rate: 55.51%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: Sun, 06 Aug 2017 07:39:34 +0000

End at: Sun, 06 Aug 2017 07:40:04 +0000

Local clock offset: 2.304 ms

Remote clock offset: 0.417 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:06:04 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.43 Mbit/s

95th percentile per-packet one-way delay: 239.755 ms

Loss rate: 44.98%

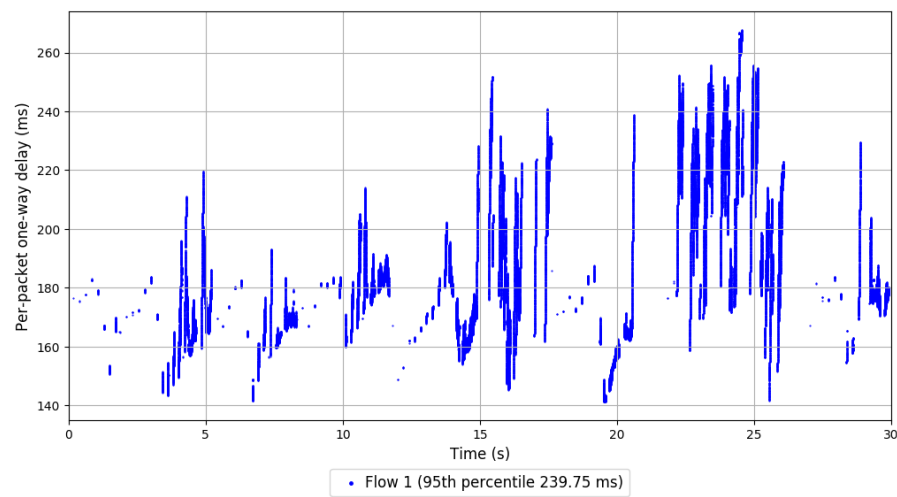
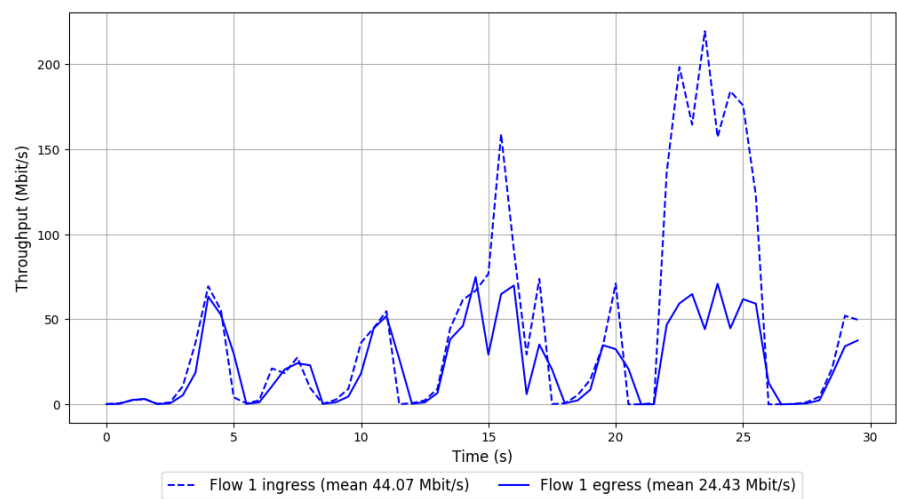
-- Flow 1:

Average throughput: 24.43 Mbit/s

95th percentile per-packet one-way delay: 239.755 ms

Loss rate: 44.98%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: Sun, 06 Aug 2017 07:59:22 +0000

End at: Sun, 06 Aug 2017 07:59:52 +0000

Local clock offset: 2.042 ms

Remote clock offset: 0.628 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:06:08 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.53 Mbit/s

95th percentile per-packet one-way delay: 236.062 ms

Loss rate: 47.34%

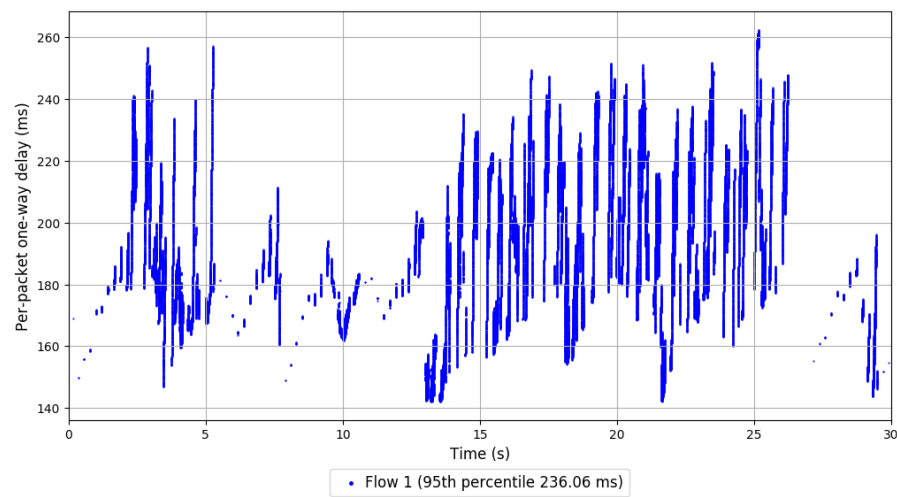
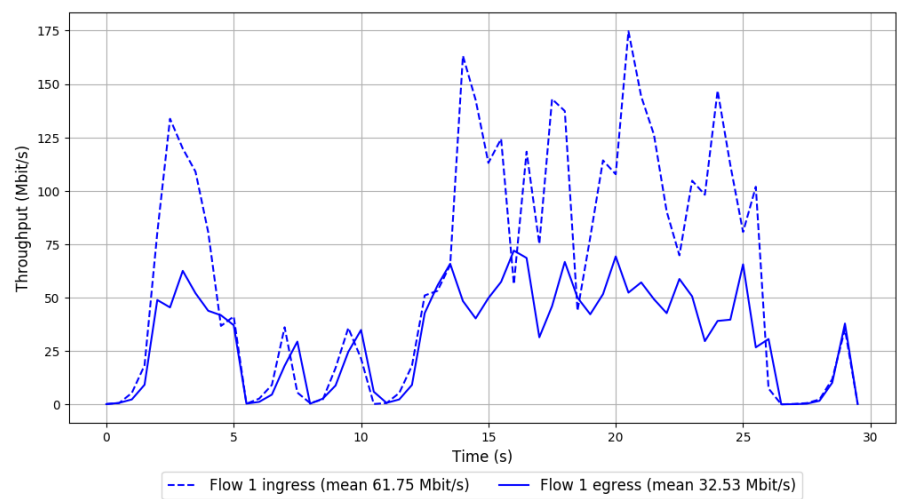
-- Flow 1:

Average throughput: 32.53 Mbit/s

95th percentile per-packet one-way delay: 236.062 ms

Loss rate: 47.34%

Run 3: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: Sun, 06 Aug 2017 07:22:46 +0000

End at: Sun, 06 Aug 2017 07:23:16 +0000

Local clock offset: 1.948 ms

Remote clock offset: 0.121 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:06:08 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 182.302 ms

Loss rate: 0.69%

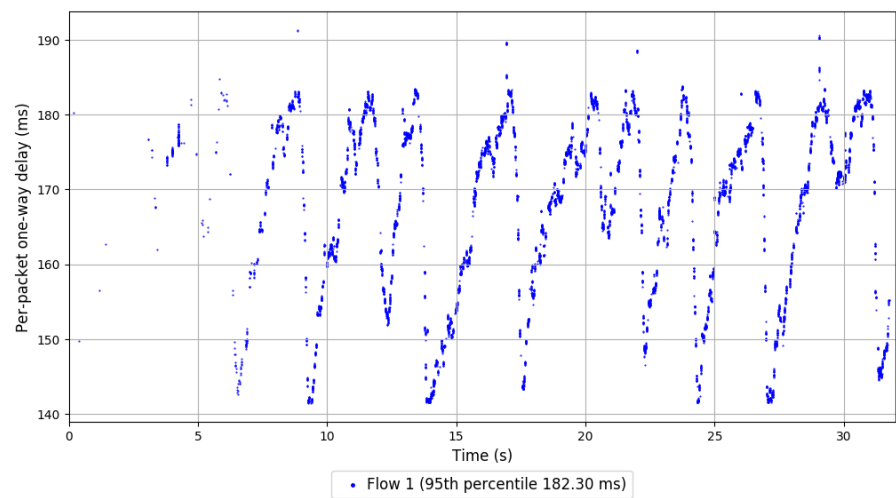
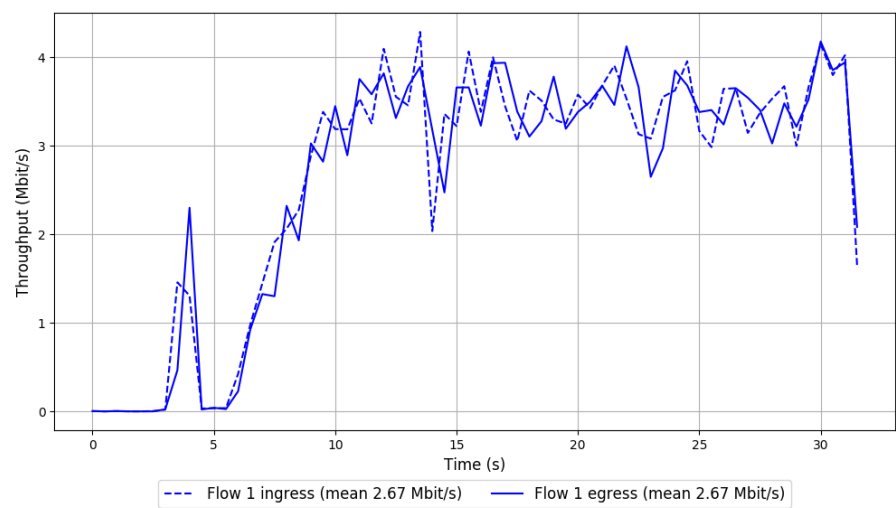
-- Flow 1:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 182.302 ms

Loss rate: 0.69%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: Sun, 06 Aug 2017 07:42:14 +0000

End at: Sun, 06 Aug 2017 07:42:44 +0000

Local clock offset: 2.963 ms

Remote clock offset: 0.416 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:06:08 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 183.489 ms

Loss rate: 0.53%

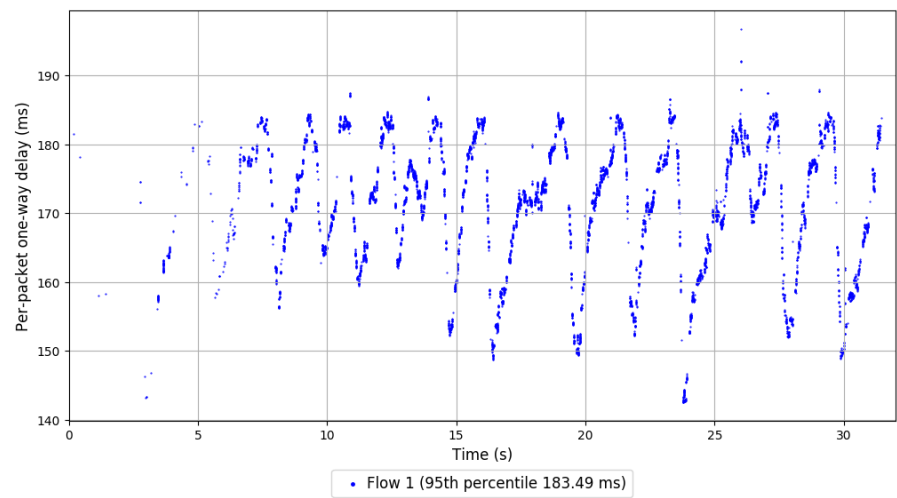
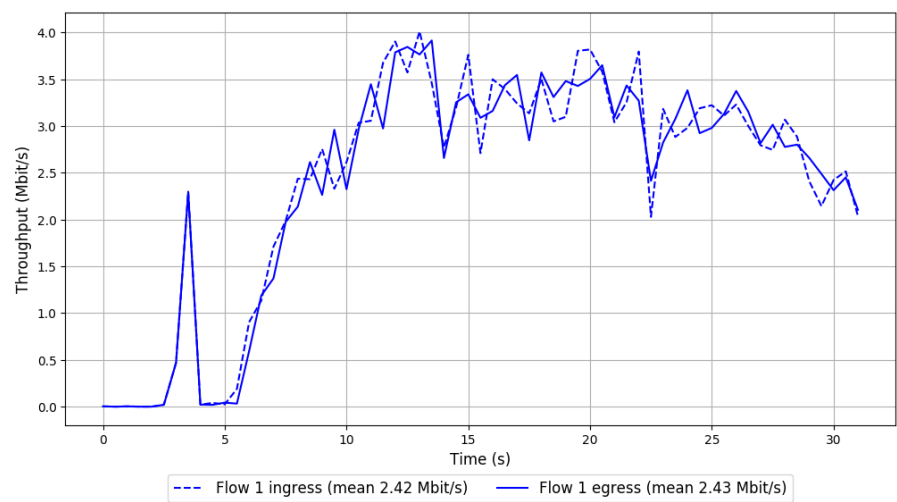
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 183.489 ms

Loss rate: 0.53%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: Sun, 06 Aug 2017 08:02:08 +0000

End at: Sun, 06 Aug 2017 08:02:38 +0000

Local clock offset: 2.003 ms

Remote clock offset: 0.784 ms

Below is generated by plot.py at Sun, 06 Aug 2017 09:06:08 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 182.195 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 182.195 ms

Loss rate: 0.99%

Run 3: Report of WebRTC media — Data Link

